

**Rico Surface Water Sampling
Supplemental Surface Water Quality Monitoring
Rico, Colorado
Data Summary Report**

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Rico, Colorado
Surface Water Sampling Report
December 2012 Sampling Event

1.0 Introduction

In accordance with the Rico Sampling and Analysis Plan for Supplemental Surface Water Quality Monitoring at Rico, CO prepared by AECOM, dated November 2010, the surface water sampling event was completed on December 18, 2012 and January 3-5, 2013. Due to weather and avalanche hazards, all samples could not be collected in December, and were collected the first week of January. Sampling was completed by Anderson Engineering Co. Inc., by technicians who are familiar with the Rico sites and the BP Control of Work Management System. Surface water samples were collected from prescribed locations within the St. Louis settling pond system and at the system discharge (DR-6) to the Dolores River (collectively referred to as the St. Louis pond system), and previously sampled locations along the Dolores River above, at and below the St. Louis pond system. Figures 1, 2, and 3 in Appendix A illustrate the locations of the various points sampled monthly. Sample results have been summarized and laboratory analytical results are attached with quality control documentation.

2.0 Field Sampling

2.1 Sampling Frequency

The sampling period represented by this sampling event is for the month of December of 2012. Sampling will be performed on a monthly basis throughout 2013 or until a date to be determined.

2.2 Water Quality and Flow Measurement Sampling Locations

Surface water and groundwater samples were collected from the locations described on Table 1 and shown on Figures 1, 2, and 3 in Appendix A. In the fall of 2011, twelve (12) new monitoring wells were drilled in the vicinity of the recently constructed interim drying facility. Beginning November 2011, those wells were sampled and will continue to be sampled monthly along with the other sampling locations mentioned. In the fall of 2012, eight (8) new monitoring wells were drilled throughout the St. Louis Ponds site. Beginning November 2012, those wells were sampled and will continue to be sampled monthly along with the other sampling locations mentioned. Additionally, eight (8) historic groundwater wells are sampled on a monthly basis.

The Dolores River was sampled above the St. Louis pond system, and below the adit outfalls downstream of the reclaimed Silver Swan Mine area. The river was also sampled at the USGS gaging station downstream of the Silver Swan site.

TABLE 1 - Sample Location Descriptions

SITE ID	SITE LOCATION / DESCRIPTION
Surface Water Locations	
DR-1	Cross-section on the Dolores River approximately 1000 feet North of Pond 18.
DR-2	Cross-section on the Dolores River approximately 150 feet North of

	the system outfall.
DR-3	St. Louis Tunnel discharge at adit entrance. Sampling location is at the parshall flume located approximately 50 ft west of the cinder block structure at the former adit entrance.
DR-4	Discharge of Pond 15. The sampling location is at the outlet of the upper discharge pipe located on the midpoint of the Pond 15 south embankment.
DR-5	Discharge of Pond 8. The sampling location is at the inlet of the discharge spillway located at the southwest corner of Pond 8.
DR-6	St. Louis settling ponds system outfall to the Dolores River (previous permit Outfall 002). Sample location is at installed 9" parshall flume.
DR-7	Dolores River below St. Louis settling ponds system outfall. Sampling/flow measurement location is located just off the entrance road to the St. Louis ponds site where the Dolores River is adjacent to the entrance road. The site is located approximately 75 feet downstream of a large bend in the river that first brings the Dolores adjacent to the entrance road.
DR-4-SW	Dolores River below Silver Swan. Sampling/flow measurement location is on the Dolores River below the Silver Swan site just downstream of a bend in the river and below a cemetery on the east bank.
DR-G	Located approximately 3.5 miles downstream of the Silver Swan site, at the USGS gauging station #09165000 immediately downstream of the bridge at this location.
Groundwater Locations	
GW-1	Well is located on the north end of the site, approximately 1000 feet north of the northern edge of Pond 18 and about 75 feet northeast of DR-1
GW-3	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.
GW-4	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.
GW-6	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1.
GW-7	Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.
EB-1	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.
EB-2	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.
MW-1 Shallow MW-1 Deep	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.
MW-2 Shallow MW-2 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond.
MW-3 Shallow MW-3 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment.

MW-4 Shallow MW-4 Deep	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road.
MW-5 Shallow MW-5 Deep	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).
MW-6 Shallow MW-6 Deep	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road
MW-101	Well is located approximately 200 feet south of the lime plant building in the large open clearing within the St. Louis Road loop.
MW-102	Well is located approximately 150 feet southeast of well GW-7 at the point that the access road splits in two directions.
MW-103	Well is located at the southwest corner of Pond 7 on the flood control dike adjacent to the Dolores River.
MW-104	Well is located approximately midway along the west flood control dike of Pond 9.
MW-202	Well is located approximately 25 feet southeast of the cinder block structure at the former adit entrance.
MW-204	Well is located approximately 200 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel.
P13-102	Well is located at approximately the southeast end of the newly constructed dike at the southwest corner of Pond 13.
P13-103	Well is located approximately midway along the newly constructed dike at the south corner of Pond 13.

2.3 Sampling Station Conditions and Descriptions

The sampling requirements and stations are described in detail below, as well as the conditions at each station for this sampling period:

DR-1. Sampling location inaccessible due to excessive ice buildup in river and unsafe access conditions. Sample could not be collected. Flow measurements could not be collected.

DR-2. Sampling location inaccessible due to excessive ice buildup in river and unsafe access conditions. Sample could not be collected. Flow measurements could not be collected.

DR-3. Flow measurement by an installed 9" flume and water level measurement devices at the sampling location.

DR-4. Sampling location fully accessible. Sample collected per protocols identified in the SAP. Flow measurement was estimated by water balance.

DR-5. Discharge of Pond 8. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Leakage was estimated by water balance. Flows estimated by water balance.

DR-6. Flow measurement by an installed 9" flume and water level measurement devices at the sampling location.

DR-7. Sampling location inaccessible due to excessive ice buildup in river and unsafe access conditions. Sample could not be collected. Flow measurements could not be collected.

DR-4-SW. Sampling location inaccessible due to excessive ice buildup in river and unsafe access conditions. Sample could not be collected. Flow measurements could not be collected.

DR-G. Sampling location inaccessible due to excessive ice buildup in river and unsafe access conditions. Sample could not be collected. Flow measurements could not be collected.

Monitoring Wells. All monitoring wells were sampled by use of a bailer, and field measurements were taken at the time of sampling, per protocols identified in the SAP. Depth measurements were also taken at this time. For the December 2012 sampling period, MW-2 Shallow, MW-3 Shallow, and MW-202 were dry.

2.4 Additional Sampling Locations

Some additional locations may be sampled during a monthly sampling event that are not included in the monthly sampling routine listed in Table 1. These samples are collected by special request for use in other projects or for other purposes outside of the scope of the monthly water sampling. Samples and field parameters for these locations are collected and processed per protocols identified in the SAP and Quality Assurance Project Plan (QAPP) for surface and groundwater sampling. Since they are collected during the same time period and sent to the lab with the other samples, these additional samples are often included in the same reports received from the lab.

Additional samples collected during the December 2012 sampling period include the following locations:

- CHV-101

Figure 10 in Appendix A show the approximate location of this additional sample. Field parameters for CHV-101 are included in Table 3 in Appendix B. The laboratory analysis data summary for this location is found on Table 4B in Appendix B.

2.5 Simultaneous Operations

During the months of December 2012, other projects were occurring simultaneously at the St. Louis Ponds site.

- Operation and troubleshooting of the pilot scale wetland test was occurring during the sampling period. This should have had little to no detrimental effect on the water quality in the samples collected in the ponds.

3.0 Sampling and Analysis Parameters and Methods

All samples were collected as grab samples. Samples were collected from well-mixed locations, which are representative of conditions within the flow stream. Groundwater samples are purged according to protocols identified in the SAP. However, for this sampling period, wells were purged on December 18th, 2012, but were not purged again immediately prior to sampling on January 3-5, 2013. This was due to winter storm conditions making the available sampling window very short. Lab-certified plastic bottles were used to collect sample water for analyses. Clean hands, dirty hands procedures were followed throughout the

sampling. For quality control purposes, one duplicate sample and one field blank were included with the water samples being submitted to the laboratory for analysis.

Lab-certified plastic bottles were used to collect all water samples. Sample water was first collected in clean plastic jugs, and within 10 minutes, placed in the sampling bottles. The following sample bottles were used for collection and analysis (all samples collected without filtration unless otherwise indicated):

- One (1) 500mL HDPE bottle, unpreserved, for alkalinity, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), chloride and sulfate analysis
- One (1) 250mL HDPE bottle, unpreserved, for salinity analysis
- One (1) 250mL HDPE bottle, preserved with HNO₃, for total metals, silica, and water hardness analysis
- One (1) 250mL HDPE bottle, preserved with HNO₃, for dissolved metals analysis. This sample is filtered in the field through a 0.45µm filter.
- One (1) 250mL HDPE bottle, preserved with HNO₃, for potentially dissolved metals analysis
- One (1) 250 mL HDPE bottle, preserved with NaOH and Zn Acetate, for sulfide analysis.
- One (1) 250 mL HDPE bottle, preserved with NaOH, for cyanide analysis
- One (1) 250 mL amber glass bottle, preserved with H₂SO₄, for Total Organic Carbon (TOC) and nitrate analysis

Field parameters were measured at the time of sample collection. Field measurement data for pH, temperature, electrical conductivity, dissolved oxygen, and Oxydation-Reduction Potential were recorded using a Hanna Instruments HI 9828 Multiparameter Meter, and results were logged in the field log book. Results of field measurements for all samples collected on site can be found in Table 3 in Appendix B. Weather parameters including temperature and precipitation were obtained and documented in the Daily Toolbox Meeting Record.

All sample bottles were labeled to identify sample number, date and time of collection, type of analysis, and appropriate preservative. In addition, sample analysis/chain of custody forms were completed and processed at the time of sample collection. Original chain of custody forms are signed, dated, and placed in the sample container prior to sealing the container for shipment.

Water samples were kept in cooled containers and sent to the analytical laboratory. Samples were submitted to Pace Analytical Laboratories in Lenexa, Kansas for analysis by analytical procedures listed on Table 2. Analysis was performed according to methods specified in 40 CFR, Part 136 or other methods approved by the EPA. Laboratory methods and reporting limits for all parameters are presented in Table 2. Laboratory results and supporting documentation including quality assurance results are contained in the Appendix C and Appendix D of this report. Results are summarized in Tables 4A and 4B in Appendix B of this report.

TABLE 2 - Analytical Procedures Summary

PARAMETER	DETECTION LIMIT (MDL)	REPORTING LIMIT (RL)	METHOD
FIELD PARAMETERS			
Dissolved Oxygen (ppm)	+/- 1.5% of reading	+/- 1.5% of reading	SM 4500-OG
Electrical Conductivity (mS/cm)	+/- 1% of reading	+/- 1% of reading	EPA 120.1
Temperature (°C)	+/- 0.15° C	+/- 0.15° C	Standard Method 2550
ORP (Oxidation Reduction Potential, mV)	+/- 1.0 mV	+/- 1.0 mV	Ag/AgCl Probe
pH (Standard pH Units)	+/- 0.02 pH	+/- 0.02 pH	EPA 150.2
NON-METALS			
Alkalinity (mg/L as CaCO ₃)	20 mg/L	20 mg/L	SM 2320B
Chloride (mg/L)	1.0 mg/L	1.0 mg/L	EPA 300.0
Cyanide (μg/L as CN)	0.0021 mg/L	0.005 mg/L	SM 4500-CN-E
Hardness (mg/L as CaCO ₃)	0.036 mg/L	0.071 mg/L	SM 2340B
Nitrogen, NO ₂ plus NO ₃ (mg/L)	0.022 mg/L	0.1 mg/L	EPA 353.2
Salinity (mg/L as dissolved solids)	6 mg/L	6 mg/L	SM 2510B (calculated)
Silica	0.027 mg/L	0.054 mg/L	EPA 200.8
Sulfate (mg/L as SO ₄)	0.15 mg/L	1.0 mg/L	EPA 300.0
Sulfides (mg/L)	0.018 mg/L	0.05 mg/L	4500-S-2 D
Total Dissolved Solids (mg/L as TDS)	5.0 mg/L	5.0 mg/L	SM 2540C
Total Organic Carbon (mg/L)	0.072 mg/L	0.5 mg/L	SM 5310C
Total Suspended Solids (mg/L as TSS)	5.0 mg/L	5.0 mg/L	SM 2540D
TOTAL, DISSOLVED, AND POTENTIALLY DISSOLVED METALS*			
Aluminum (μg/L as Al)	2.00 μg/L, 6.35 μg/L	4 μg/L, 50 μg/L	EPA 200.8, EPA 200.8
Antimony (μg/L as Sb)	0.100 μg/L, 0.03 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Arsenic (μg/L as As)	0.138 μg/L, 0.05 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Barium (μg/L as Ba)	0.150 μg/L, 0.08 μg/L	0.3 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Beryllium (μg/L as Be)	0.092 μg/L, 0.05 μg/L	0.2 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Cadmium (μg/L as Cd)	0.028 μg/L, 0.05 μg/L	0.08 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Calcium (μg/L as Ca)	10.000 μg/L, 10.35 μg/L	20 μg/L, 100 μg/L	EPA 200.8, EPA 200.7
Chromium (ug/l as Cr)	0.094 μg/L, 0.07 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Cobalt (ug/l as Co)	0.250 μg/L, 0.08 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Copper (μg/L as Cu)	0.184 μg/L, 0.12 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Iron (μg/L as Fe)	10.00 μg/L, 2.95 μg/L	50 μg/L, 50 μg/L	EPA 200.8, EPA 200.8
Lead (μg/L as Pb)	0.018 μg/L, 0.03 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Magnesium (μg/L as Mg)	2.31 μg/L, 6.48 μg/L	5 μg/L, 50 μg/L	EPA 200.8, EPA 200.7
Manganese (μg/L as Mn)	0.250 μg/L, 0.14 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Mercury (μg/L as Hg)	0.1 μg/L, 0.053 μg/L	0.2 μg/L, 1 μg/L	EPA 245.1, EPA 245.1
Molybdenum (μg/L as Mo)	0.069 μg/L, 0.12 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Nickel (μg/L as Ni)	0.151 μg/L, 0.07 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Potassium (μg/L as K)	5.24 μg/L, 44.38 μg/L	20 μg/L, 500 μg/L	EPA 200.8, EPA 200.7
Selenium (ug/l as Se)	0.094 μg/L, 0.14 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Silver (ug/L as Ag)	0.040 μg/L, 0.01 μg/L	0.5 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Sodium (μg/L as Na)	10.40 μg/L, 21.68 μg/L	50 μg/L, 500 μg/L	EPA 200.8, EPA 200.7
Thallium (μg/L as Tl)	0.019 μg/L, 0.02 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Vanadium (μg/L as V)	0.037 μg/L, 0.11 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Zinc (μg/L as Zn)	1.00 μg/L, 1.04 μg/L	5 μg/L, 10 μg/L	EPA 200.8, EPA 200.8

*Limits and methods for metals displayed in following format: Total and Dissolved Metals, Potentially Dissolved Metals

4.0 Flow Measurement Methods

Flow velocity measurements were taken at the river sampling locations where accessible. Flow measurements were not collected at areas where ice and snow buildup or high, fast flows prohibited safe access. The flow measurements obtained this sampling period are described in Section 2.3. For this sampling period, flowrates were not measured for river and pond sampling locations DR-1, DR-2, DR-5, DR-7, DR-4-SW, and DR-G due to excessive ice buildup and unsafe access conditions. Flow measurements were collected at DR-3 and DR-6. Refer to Figures 4 through 9 in Appendix E for Dolores River cross sections. The flowrates are presented on Table 3 in Appendix B.

The St. Louis tunnel flow (DR-3) and St. Louis pond discharge (DR-6) currently have Parshall flumes installed. Flow measurements can be determined at these flumes when the depth of flow is known at a particular point. In order to continuously monitor and measure the depth of flow, depth measurement devices were installed on May 11th, 2011 and May 12th, 2011 at both the north and south flumes. An STI Ultrasonic IRU-5180 automated water level detector was installed at the north Parshall flume. In order to obtain further flow data, an OTT PLS submersible pressure transducer was installed at the north flume in December 2011. In January 2012, it was decided that the OTT PLS would be used exclusively at the north flume to report flow data, and that the ultrasonic meter would remain only as a backup flow measurement system. This was due in large part to the stability and uniformity observed in the data from the OTT PLS, as opposed to the ultrasonic meter, which exhibited greater instability and variability in the readings than the OTT PLS. The south flume has a submersible pressure transducer called the OTT Orpheus Mini. It records deviations from a pre-programmed depth of air space from the top edge of the flume down to the water level. Knowing then the total depth of the flume, the depth of flow can be determined. The post processed data for the OTT PLS, the STI Ultrasonic IRU-5180, and the OTT Orpheus Mini for the month of December, 2012 are given in Appendix I, J, and K, respectively.

During the month of December 2012, snow storms on-site caused snow to build up on the solar panel that charges the battery powering the flow equipment at DR-3. As a result, the battery lost power during several time periods as early as December 10th. Power was completely lost on the 25th. Power was not restored until the following month. This resulted in the loss of data for the time periods when no power was present.

5.0 Analytical Results

The results of the laboratory analysis are summarized on Tables 4A and 4B in Appendix B. The data is organized by sample location. The Pace Lab reports for all results are contained in Appendix C.

6.0 Quality Control

In addition to the standard laboratory Quality Control (QC), field QC samples for this sampling event included a field duplicate and a Field Blank (FB).

6.1 Field QC

A field duplicate water sample was collected from sample location DR-3. During sample collection, the duplicate sample bottles were filled simultaneously from

the discharge stream of water. The duplicate sample was submitted to the analytical laboratory with the label of DR-8, so as to serve as a “blind duplicate.”

Table 5 compares the analytical results for total metals portion from DR-3 and DR-8 and presents the Relative Percent Difference (RPD). The RPD for aqueous samples should be +/- 20%. All comparative values were within +/-20% with the exception of dissolved aluminum, dissolved copper, dissolved iron.

TABLE 5 – Relative Percent Difference (RPD) of Lab Analysis Between DR-3 and Duplicate Sample DR-8

Analyte (Total)	Total Metals		RPD (%)	Dissolved Metals		RPD (%)	Potentially Dissolved Metals		RPD (%)
	DR-3 (µg/L)	DR-8 (µg/L)		DR-3 (µg/L)	DR-8 (µg/L)		DR-3 (µg/L)	DR-8 (µg/L)	
Aluminum	815	731	-10.87	27.0	12.2	-75.51	711	840	16.63
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	0.30J	0.35J	-
Arsenic	1.9	1.7	-11.11	<0.50	<0.50	-	1.4	1.6	13.33
Barium	20.0	20.8	3.92	20.7	20.7	0.00	19.1	19.5	2.07
Beryllium	0.92	0.88	-4.44	0.29	0.33	12.90	0.84	0.97	14.36
Cadmium	14.0	14.6	4.20	13.0	13.0	0.00	14.3	15.1	5.44
Calcium	239000	247000	3.29	249000	242000	-2.85	244000	238000	-2.49
Chromium	0.60	0.58	-3.39	<0.50	<0.50	-	0.65J	0.85J	-
Cobalt	2.6	2.8	7.41	2.6	2.7	3.77	2.4	2.4	0.00
Copper	166	150	-10.13	8.0	5.4	-38.81	135	154	13.15
Iron	9310	8580	-8.16	456	281	-47.49	8160	9260	12.63
Lead	17.6	16.7	-5.25	0.35	<0.10	-	15.9	18.5	15.12
Magnesium	18800	19000	1.06	18700	18300	-2.16	20100	19000	-5.63
Manganese	1690	1790	5.75	1740	1790	2.83	1670	1730	3.53
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	21.0	20.8	-0.96	18.9	19.7	4.15	21.2	21.8	2.79
Nickel	4.0	3.9	-2.53	4.5	4.4	-2.25	2.5	2.1	-17.39
Potassium	19300	18800	-2.62	20100	18400	-8.83	21100	20000	-5.35
Selenium	<0.50	<0.50	-	<0.50	<0.50	-	<1.0	<1.0	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	0.15J	<0.50	-
Sodium	12400	10300	-18.50	11000	11500	4.44	12000	11600	-3.39
Thallium	<0.10	<0.10	-	<0.10	<0.10	-	0.13J	0.093J	-
Vanadium	0.20	0.19	-5.13	<0.10	<0.10	-	<1.0	<1.0	-
Zinc	3110	3030	-2.61	2720	2710	-0.37	2690	2840	5.42
Alkalinity (mg/L)	102	103	0.98	-	-	-	-	-	-
Chloride (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	675000	695000	2.92	-	-	-	-	-	-
Nitrogen, NO ₂ plus NO ₃ (mg/L)	<0.10	<0.10	-	-	-	-	-	-	-
Salinity (mg/L)	782	785	0.38	-	-	-	-	-	-
Silica	19200	18100	-5.90	-	-	-	-	-	-
Sulfate (mg/L)	635	649	2.18	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	1050	1050	0.00	-	-	-	-	-	-
TOC (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
TSS (mg/L)	29.0	20.0	-36.73	-	-	-	-	-	-

A Field Blank (FB) was collected by analyzing a bottle of distilled water in the field in the same manner as any other sample. The FB was analyzed for the same constituents as the other samples. The FB had concentrations below the reporting limit for all metals except for a small number of total, dissolved, and potentially dissolved metals. The pH was slightly above neutral, the Electrical Conductivity (EC) was very low, it showed a non-detectable level of alkalinity, and a non-detectable level of TDS.

6.2 Laboratory QC

The laboratory control sample (LCS), method blank, matrix spike, and matrix spike duplicate sample results were all within the established limits of concentration, percent recovery, and relative percent difference, with several minor exceptions. Please refer to the Laboratory QC Results in Appendix D for exceptions and for a full QC report.

Appendix A
Sampling Location Maps



1

NORTHERN ST. LOUIS PONDS SAMPLING LOCATIONS

SCALE - 1" = 350'

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General Notes



SCALE IN FEET
0 175 350

No.	Revision/Issue	Date

BP



RICO WATER SAMPLING
NORTHERN ST. LOUIS PONDS
SAMPLING LOCATIONS
RICO,
COLORADO

DRAWN BY: MAD
ENGINEER: MAD
APPROVED: MAD

Project	Sheet
Date	22-Oct-12
Scale	1" = 350'

1

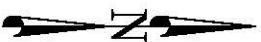


2 SOUTHERN ST. LOUIS PONDS SAMPLING LOCATIONS

SCALE - 1" = 350'

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General Notes



SCALE IN FEET
0 175 350

No.	Revision/Issue	Date

BP



RICO WATER SAMPLING

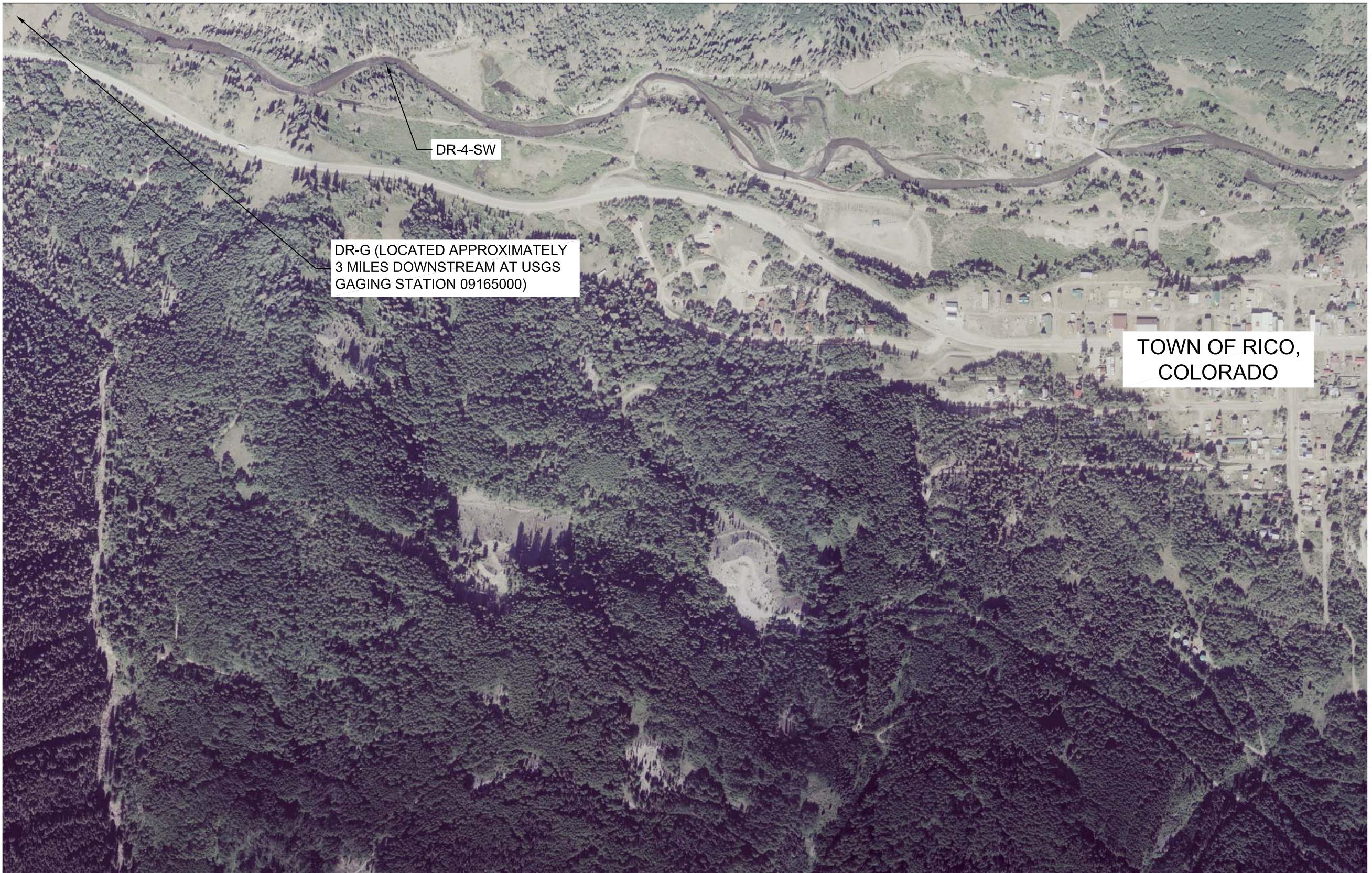
SOUTHERN ST. LOUIS PONDS
SAMPLING LOCATIONS

RICO,
COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	MAD

Project	Sheet
Date	22-Oct-12
Scale	1" = 350'

2



3

SAMPLING LOCATIONS SOUTH OF RICO, CO

SCALE - 1" = 500'

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General Notes		
BP / ARCO		
ANDERSON ENGINEERING COMPANY, INC. 977 WEST 2100 SOUTH SALT LAKE CITY, UTAH 84119 (801) 972-6222		
RICO SURFACE WATER SAMOPLING SAMPLING LOCATIONS SOUTH OF RICO, CO RICO, COLORADO		
DRAWN BY:	MAD	
ENGINEER:	MAD	
APPROVED:	CES	
Project	Sheet	
Date	5-Apr-12	
Scale	1" = 500'	

3



10 ADDITIONAL SAMPLE COLLECTION POINTS, DEC 2012
SCALE - 1" = 100'

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General Notes

SCALE IN FEET

0 50 100

No.	Revision / Issue	Date

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ANDERSON
ENGINEERING COMPANY, INC.

2771 MURKIN AVE., SUITE 170
GALT, CALIFORNIA 95249-1919
(800) 873-8222

RICO WATER SAMPLING

**ADDITIONAL SAMPLE
COLLECTION LOCATIONS,
DECEMBER 2012**

RICO,
COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	MAD

Project	Sheet
Date	DEC 2012
Scale	1" = 100'

10

Appendix B

Data Tables

TABLE 3 - Sampling Field Data and Station Information Summary, December 2012

			Field Measurements							GPS Location (Colorado State Plane NAD83)		Flow Data			Comments		
			Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)								
Sample Location																	
DR-1										NA	NA	1389970.4600	2267573.6490	CNO	CNO	Cross section on the Dolores River above St. Louis settling pond system (approximately 800 ft north of the northern edge of Pond 18). Flow measurement could not be obtained due to excessive ice buildup and unsafe access conditions.	
DR-2										NA	NA	1386660.9610	2267971.4630	CNO	CNO	Cross section on the Dolores River, approximately 150 ft north of system outfall. Flow measurement could not be obtained due to excessive ice buildup and unsafe access conditions.	
DR-3	1/4/2013	Tim Barbee, Ben Loomis	6.53	17.70	0.980	3.36	-51.9	NA	NA	1388963.0808	2268004.6974	NA	Ultrasonic	1.23	553	St Louis adit discharge. Flow measurement by installed Parshall Flume. Water level by installed STI Ultrasonic IRU-5180 water level meter and an OTT PLS submersible pressure transducer.	
													Transducer	1.37	615		
DR-4	1/4/2013	Tim Barbee, Ben Loomis	6.77	6.35	0.964	5.67	-35.1	NA	NA	1388153.6284	2267799.1579	NA	1.25		561	Pond 15 discharge. Snow conditions onsite prevented safe access to collect flow measurements. Flow estimated from water balance.	
DR-5	1/4/2013	Tim Barbee, Ben Loomis	7.19	3.13	1.014	6.62	-35.0	NA	NA	1387273.4503	2268024.8524	NA	1.11		498	Pond 8 was discharging at multiple small locations as well as the spillway. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Leakage was estimated by water balance. Flows estimated by water balance.	
DR-6	1/5/2013	Tim Barbee, Ben Loomis	8.15	0.37	1.314	7.52	-108.3	NA	NA	1386431.4984	2267964.5711	NA	1.02		458	Outfall to Dolores River. Flow measurement by installed Parshall Flume. Water level by OTT Orpheus Mini submersible pressure transducer.	
DR-7										NA	NA	1385880.1050	2267983.4510	CNO	CNO	CNO	Cross section on the Dolores River, approximately 500 ft below St. Louis settling pond system outfall. Flow measurement could not be obtained due to excessive ice buildup and unsafe access conditions.
DR-8	1/4/2013	Tim Barbee, Ben Loomis	6.55	12.35	0.968	3.65	-40.0	NA	NA	1388963.0808	2268004.6974	NA	NA		NA	DR-8 is a duplicate sample of DR-3 (or a location of sampler's choosing). See comments for DR-3.	
DR-4-SW										NA	NA	1379176.1190	2266285.0850	CNO	CNO	CNO	Cross section on the Dolores River approximately 100 below the Silver Swan site. Flow measurement could not be obtained due to excessive ice buildup and unsafe access conditions.
DR-G										NA	NA	1364029.7850	2258752.9060	CNO	CNO	CNO	Cross section on the Dolores River at USGS gauging station #09165000, approximately 3.5 miles downstream of the Silver Swan site. Flow measurement could not be obtained due to excessive ice buildup and unsafe access conditions.
FB	1/4/2013	Tim Barbee, Ben Loomis	8.02	3.51	0.002	5.77	-58.8	NA	NA	NA	NA	NA	NA	NA	NA	Field blank	
GW-1	1/3/2013	Tim Barbee, Ben Loomis	7.68	1.91	0.370	4.93	-118.2	8840.13	8837.92	1390006.0210	2267642.6870	NA	NA		NA	Located on the north end of the site, approximately a quarter mile north of the northern edge of Pond 18.	
GW-3	1/4/2013	Tim Barbee, Ben Loomis	6.85	3.51	0.584	5.89	-35.1	8836.68	8823.70	1389221.9930	2267708.3940	NA	NA		NA	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.	
GW-4	1/4/2013	Tim Barbee, Ben Loomis	6.77	2.54	1.045	0.00	-116.6	8826.79	8815.95	1388790.0720	2267553.5420	NA	NA		NA	Located on the western flood dike of Pond 18, approximately midway along the dike.	
GW-5	1/4/2013	Tim Barbee, Ben Loomis	6.51	3.46	1.921	2.06	-49.0	8839.52	8817.36	1388802.0650	2267911.8020	NA	NA		NA	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.	
GW-6	1/4/2013	Tim Barbee, Ben Loomis	6.62	6.32	1.897	0.92	-60.2	8837.45	8815.77	1388589.3950	2267922.5090	NA	NA		NA	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1.	
GW-7	1/4/2013	Tim Barbee, Ben Loomis	6.33	7.69	1.048	1.55	-67.6	8840.00	8816.86	1388611.4370	2268158.0170	NA	NA		NA	GW-7 Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.	
EB-1	1/4/2013	Tim Barbee, Ben Loomis	6.55	3.17	1.672	0.91	-48.0	8839.86	8817.29	1388792.4420	2267916.9080	NA	NA		NA	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.	
EB-2	1/4/2013	Tim Barbee, Ben Loomis	5.97	7.16	2.054	1.09	-55.5	8829.84	8812.82	1388306.1480	2267920.2500	NA	NA		NA	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.	
MW-1 SHALLOW	1/4/2013	Tim Barbee, Ben Loomis	6.78	3.59	0.941	5.34	-50.1	8810.87	8804.30	1387826.7470	2267944.5160	NA	NA		NA	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.	
MW-1 DEEP	1/4/2013	Tim Barbee, Ben Loomis	6.76	3.43	0.942	3.53	-47.4	8810.85	8801.14	1387829.4070	2267940.5680	NA	NA		NA	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond.	
MW-2 SHALLOW	12/18/2012	Tim Barbee, Ben Loomis						8810.23	8800.04	1387829.7580	2267759.0810	NA	NA		NA	MW-2 SHALLOW had less than one inch of water.	
MW-2 DEEP	1/5/2013	Tim Barbee, Ben Loomis	7.04	7.49	0.908	2.8	-82.7	8810.21	8800.06	1387836.0950	2267756.0910	NA	NA		NA		
MW-3 SHALLOW								8819.57	DRY	1388308.0910	2267603.5420	NA	NA		NA	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment. MW-3 SHALLOW was dry.	
MW-3 DEEP	1/4/2013	Tim Barbee, Ben Loomis	6.74	8.75	0.951	0.35	-38.8	8819.72	8809.67	1388313.2060	2267601.6050	NA	NA		NA		
MW-4 SHALLOW	1/4/2013	Tim Barbee, Ben Loomis	6.33	7.59	1.026	2.74	-44.9	8816.83	8799.75	1387836.9670	2268221.9370	NA	NA		NA	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road.	
MW-4 DEEP	1/4/2013	Tim Barbee, Ben Loomis	6.76	8.50	1.058	1.00	-60.4	8816.77	8799.74	1387839.1320	2268224.8950	NA	NA		NA		
MW-5 SHALLOW	1/5/2013	Tim Barbee, Ben Loomis	4.21	5.88	2.413	1.17	-56.3	8830.95	8814.27	1388369.7050	2267814.3980	NA	NA		NA	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).	
MW-5 DEEP	1/5/2013	Tim Barbee, Ben Loomis	7.40	4.44	1.399	0.73	-58.5	8830.73	8813.17	1388374.5740	2267813.8150	NA	NA		NA		
MW-6 SHALLOW	1/5/2013	Tim Barbee, Ben Loomis	6.40	8.21	1.535	0.40	-54.7	8830.58	8807.18	1388166.1000	2268148.1000	NA	NA		NA	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road. MW-6 Deep was frozen at the time of depth measurement, but not at the time of sample collection.	
MW-6 DEEP	1/5/2013	Tim Barbee, Ben Loomis	6.37	8.20	0.939	0.34	-51.8	8830.11	CNO	1388165.5290	2268153.3270	NA	NA		NA		
MW-101	1/4/2013	Tim Barbee, Ben Loomis	6.20	8.11	1.812	0.83	-87.0	8845.42	8817.64	1388742.4460	2268096.7400	NA	NA		NA	Located east of Drying Cells 1 / 2 boundary dike, inside the St Louis Access road loop, south of the St. Louis lab bldg.	
MW-102	1/4/2013	Tim Barbee, Ben Loomis	6.50	9.49	0.888	1.93	-74.6	8841.30	8817.05	1388482.8360	2268230.4920	NA	NA		NA	Located east of Drying Cell 4, in the St Louis Access road at the south end of the road loop.	
MW-103	1/5/2013	Tim Barbee, Ben Loomis	6.16	5.48	1.169	0.03	-40.3	8797.80	8790.76</td								

TABLE 4A - Surface Water Analytical Sampling Results Summary, December 2012

		Metals (µg/L)																				Non-Metals (mg/L, unless otherwise indicated)																
Field Sample ID	Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Chloride	Cyanide	Hardness (µg/L as CaCO ₃)	Nitrogen, NO ₂ plus NO ₃	Salinity	Silica	Sulfate	Sulfide	TDS	TOC	TS
DR-1	NA	Total	COULD NOT OBTAIN DUE TO SEVERE WEATHER AND UNSAFE ACCESS CONDITIONS																																			
		Dissolved																																				
		Potentially Dissolved																																				
DR-2	NA	Total	COULD NOT OBTAIN DUE TO SEVERE WEATHER AND UNSAFE ACCESS CONDITIONS																																			
		Dissolved																																				
		Potentially Dissolved																																				
DR-3	1/4/13	Total	815	<0.50	1.9	20.0	0.92	14.0	239000	0.60	2.6	166	9310	17.6	18800	1690	<0.20	21.0	4.0	19300	<0.50	<0.50	12400	<0.10	0.20	3110	102	<1.0	<0.0050	675000	<0.10	782	19200	635	<0.050	1050	<1.0	29.
		Dissolved	27.0	<0.50	<0.50	20.7	0.29	13.0	249000	<0.50	2.6	8.0	456	0.35	18700	1740	<0.20	18.9	4.5	20100	<0.50	<0.50	11000	<0.10	<0.10	2720												
		Potentially Dissolved	711	0.30J	1.4	19.1	0.64	14.3	244000	0.65J	2.4	135	8160	15.9	20100	1670	<0.20	21.2	2.5	21100	<1.0	0.15J	12000	1.03J	<1.0	2690												
DR-4	1/4/13	Total	293	<0.50	0.72	20.2	0.45	11.7	241000	<0.50	2.5	60.7	3410	6.3	19400	1680	<0.20	20.1	3.9	20700	<0.50	<0.50	12900	<0.10	<0.10	2540	103	<1.0	<0.0050	682000	<0.10	758	17100	651	<0.050	1060	<1.0	6.0
		Dissolved	156	<0.50	0.53	20.2	0.23	11.3	246000	<0.50	2.6	29.3	1680	3.2	19000	1690	<0.20	20.1	3.8	21100	<0.50	<0.50	11100	<0.10	<0.10	2320												
		Potentially Dissolved	313	0.24J	0.74J	19.5	0.38J	12.3	231000	0.71J	2.5	58.0	3480	7.4	19100	1760	<0.20	21.4	2.2	20800	<1.0	<0.50	11500	0.074J	<1.0	2370												
DR-5	1/4/13	Total	174	<0.50	0.55	20.8	0.30	28000	<0.50	2.4	35.8	2300	3.8	21200	1920	<0.20	19.2	3.6	21500	<0.50	<0.50	11500	<0.10	<0.10	2620	114	<1.0	<0.0050	786000	<0.10	854	18400	676	0.060	1100	<1.0	6.0	
		Dissolved	55	<0.50	<0.50	20.7	<0.20	17	255000	<0.50	2.6	3.3	2560	0.30	20000	1890	<0.20	19.6	3.8	16900	<0.50	<0.50	11900	<0.10	<0.10	2020												
		Potentially Dissolved	228	0.22J	0.50J	19.4	0.26J	10.5	245000	0.38J	2.4	35.1	2070	4.3	21000	1800	<0.20	20.6	2.1	22300	<1.0	0.69J	12000	0.073J	<1.0	2170												
DR-6	1/5/13	Total	112	<0.50	<0.50	21.6	0.22	7.3	232000	<0.50	2.4	22.1	1590	2.4	24600	1880	<0.20	18.2	3.5	26000	<0.50	<0.50	13300	<0.10	<0.10	2390	137	8.9	<0.0050	830000	<0.10	900	21100	691	<0.050	1190	<1.0	5.0
		Dissolved	12.2	<0.50	<0.50	21.6	<0.20	0.45	269000	<0.50	2.7	1.9	192	0.10	22400	1830	<0.20	18.6	4.1	22700	<0.50	<0.50	14300	<0.10	<0.10	2060												
		Potentially Dissolved	108	0.21J	0.50J	20.3	0.19J	7.3	240000	0.43J	2.2	20.9	1600	2.6	24200	1770	<0.20	19.3	1.9	34300	<1.0	<0.50	13500	0.062J	<1.0	2010												
DR-7	NA	Total	COULD NOT OBTAIN DUE TO SEVERE WEATHER AND UNSAFE ACCESS CONDITIONS																																			
		Dissolved																																				
		Potentially Dissolved																																				
DR-8	1/4/13	Total	731	<0.50	1.7	20.8	0.88	14.6	247000	0.58	2.8	150	8580	16.7	19000	1790	<0.20	20.8	3.9	18800	<0.50	<0.50	10300	<0.10	0.19	3030	103	<1.0	<0.0050	695000	<0.10	785	18100	649	<0.050	1050	<1.0	20.
		Dissolved	12.2	<0.50	<0.50	20.7	0.33	13.0	242000	<0.50	2.7	5.4	281	<0.10	18300	1790	<0.20	19.7	4.4	18400	<0.50	<0.50	11500	<0.10	<0.10	2710												
		Potentially Dissolved	840	0.35J	1.6	19.5	0.97	15.1	238000	0.85J	2.4	154	9260	18.5	19000	1730	<0.20	21.8	2.1	20000	<1.0	<0.50	11600	0.093J	<1.0	2840												
DR-4-SW		NA	COULD NOT OBTAIN DUE TO SEVERE WEATHER AND UNSAFE ACCESS CONDITIONS																																			
DR-G		NA	Total	COULD NOT OBTAIN DUE TO SEVERE WEATHER AND UNSAFE ACCESS CONDITIONS																																		
FB		1/4/13	Total	<4.0	<0.50	<0.50	0.91	<0.20	<0.080	80.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
			Dissolved	<4.0	<0.50	<0.50	<0.30	<0.20	<0.080	87.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
			Potentially Dissolved	<5.0	<1.0	<1.0	0.88J	<0.50	<0.50	229	0.36J	<1.0	<1.0	9.2J	0.45J	26.1J	0.73J	<0.20	0.69J	<1.0	0.15J	291J	<0.073J	<1.0	7.0J	<20.0	<1.0	<0.0050	263	<0.10	<6.0	70.7	<1.0	<0.050	11.0	<1.0	<5.0	



TABLE 4B - Groundwater Analytical Sampling Results Summary, December 2012

		Metals ($\mu\text{g/L}$)																				Non-Metals (mg/L, unless otherwise indicated)																		
Field Sample ID	Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity	Chloride	Cyanide	Hardness ($\mu\text{g/L}$ as CaCO_3)	Nitrogen, NO_2 plus NO_3	Salinity	Silica	Sulfate	Sulfide	TDS	TOC	TSS		
GW-1	1/3/13	Total	6960	0.51	11.1	294	0.91	2.6	57800	11.0	74.8	14000	55.5	9740	2170	0.62	2.7	22.2	0.61	1.1	2950	0.15	15.1	210	2.6	854														
		Dissolved	<4.0	<0.50	<0.50	65.7	<0.20	<0.080	54300	<0.50	<0.50	<0.10	6500	0.64	<0.20	1.2	0.61	1.1	2950	<0.50	2410	<0.10	<0.10	<5.0																
		Potentially Dissolved	2210	0.16J	2.7	228	0.62	2.2	57600	2.3	4.4	50.8	3930	28.8	7560	1000	<0.20	0.59J	10.8	5440	1.3	0.60	2730	0.077J	4.4	134														
GW-3	1/4/13	Total	26100	0.48	46.0	459	1.3	5.0	15800	56.7	22.6	2000	49900	52.1	39500	46.0	<0.20	6.5	30.7	5440	0.5	3680	0.50	55.1	1140															
		Dissolved	<2.0	<0.50	0.69	23.4	<0.20	0.22	445000	0.22	<0.50	<0.30	3.5	32.4	14.4	17800	<0.20	0.53	10.1	4000	<0.20	2.6	<0.50	3200	<0.10	0.63	44.1	208	1.4	<0.0050	549000	<0.10	499	90900	201	<0.050	546	1.5	635	
GW-4	1/4/13	Total	3890	<0.50	3.2	91.0	0.28	2.4	216000	5.9	2.8	17.2	7040	13.9	25700	966	<0.20	10.1	5.3	14700	0.54	9690	0.12	8.2	147.															
		Dissolved	28.0	<0.50	0.92	44.9	<0.20	0.21	217000	<0.50	1.3	1.2	1420	0.18	21800	876	<0.20	10.1	2.3	14200	<0.50	8140	<0.10	0.27	32.0															
GW-5	1/4/13	Potentially Dissolved	1370	0.16J	2.1	52.6	0.19J	2.8	215000	2.7	2.1	14.3	3870	16.3	24600	887	<0.20	7.8	2.2	14100	0.37J	9170	0.17J	3.3	152															
GW-6	1/4/13	Total	36500	3.7	1120	142	3.4	298	612000	37.5	77.1	5000	192000	37500	71800	14200	0.84	41.2	116	9180	10.0	6040	4.5	53.6	79100															
		Dissolved	1030	<0.50	75.1	20.9	<0.20	9.7	620000	1.1	9.0	113	10100	1480	58300	5540	<0.20	12.8	11.6	5100	<0.50	4.4	5630	0.25	1.6	6890	171	1.1	<0.0050	1820000	<0.10	1600	143000	1700	1.3	2500	<1.0	4160		
		Potentially Dissolved	15200	1.2	779	9.3	2.1	172	640000	12.8	26.4	560	95400	4920	65200	8650	<0.20	5.6	5370	4.5	0.50	6720	0.85J	25.2	67000															
GW-6	1/4/13	Total	15900	2.3	320	75.2	3.0	42.9	424000	19.3	16.6	556	196000	6010	92300	22800	<0.20	11.8	25.6	26400	2.2	8.9	4680	0.89	32.2	13000														
		Dissolved	100	<0.50	82.2	1.5	0.76	<0.080	423000	<0.50	2.0	0.46	85900	2000	<0.20	11.1	1.7	23000	<0.50	0.50	4310	<0.10	<0.10	5160	60.8	1.1	<0.0050	1440000	<0.10	1420	86500	1880	<0.050	2440	1.4	1500				
		Potentially Dissolved	8140	1.1	283	18.4	2.4	28.5	427000	9.2	8.3	264	166000	4580	89400	22200	<0.20	6.8	10.4	23400	1.8	<0.50	4980	0.41J	19.1	9760														
GW-7	1/4/13	Total	9320	<0.50	12.8	33.3	1.2	4.7	217000	13.6	4.2	21	217000	650	31600	16800	<0.20	3.5	11.5	3520	7.6	1.2	7300	0.51	9.8	847														
		Dissolved	642	<0.50	<0.50	13.4	<0.20	3.3	283000	<0.50	0.68	0.41	23000	2.9	25000	33.3	<0.20	1.1	3.0	15.5	1.2	<0.50	7470	<0.10	<0.10	166	246	1.3	<0.0050	824000	0.44	868	33600	590	<0.050	1090	1.0	1090		
EB-1	1/4/13	Total	356	<0.50	6.1	17.7	0.25	0.90	507000	0.81	6.8	17.4	5440	65.4	32600	4670	<0.20	14.8	7.0	6220	<0.50	7560	<0.10	0.56	1680															
		Dissolved	13.0	<0.50	1.2	15.4	<0.20	0.27	535000	<0.50	6.6	<0.50	1850	0.11	34200	4910	<0.20	14.5	6.7	6460	<0.50	7150	<0.10	<0.10	1530	185	1.2	0.0070	1400000	<0.10	1380	26000	1320	0.057	2010	<1.0	450			
EB-2	1/4/13	Total	8990	<0.50	198	15.0	4.2	1.4	328000	1.0	43.3	27.3	406000	192	103000	22000	<0.20	4.9	60.0	12100	1.7	6720	<0.10	0.54	31300															
		Dissolved	9200	<0.50	154	12.1	4.0	0.52	330000	<0.50	39.2	4.0	393000	31.3	105000	22600	<0.20	4.5	53.8	12600	<0.50	6270	<0.10	0.10	31500	108	1.9	<0.0050	1240000	<0.10	1640	35200	2940	0.055	2670	<1.0	122			
MW-1 SHALLOW	1/4/13	Total	20100	0.67	26.9	243	2.2	3.1	235000	24.0	16.3	132	31100	294	30700	1770	<0.20	8.5	20.9	7290	14																			

Appendix C

Project Narrative and Laboratory Analytical Reports

February 12, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Dear Mark DeFriez:

Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DEC 2012 RICO WATER SAMPLING
 Pace Project No.: 60136463

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
 A2LA Certification #: 2926.01
 Alaska Certification #: UST-078
 Alaska Certification #MN00064
 Arizona Certification #: AZ-0014
 Arkansas Certification #: 88-0680
 California Certification #: 01155CA
 Colorado Certification #Pace
 Connecticut Certification #: PH-0256
 EPA Region 8 Certification #: Pace
 Florida/NELAP Certification #: E87605
 Georgia Certification #: 959
 Hawaii Certification #Pace
 Idaho Certification #: MN00064
 Illinois Certification #: 200011
 Kansas Certification #: E-10167
 Louisiana Certification #: 03086
 Louisiana Certification #: LA080009
 Maine Certification #: 2007029
 Maryland Certification #: 322
 Michigan DEQ Certification #: 9909
 Minnesota Certification #: 027-053-137
 Mississippi Certification #: Pace

Montana Certification #: MT CERT0092
 Nebraska Certification #: Pace
 Nevada Certification #: MN_00064
 New Jersey Certification #: MN-002
 New York Certification #: 11647
 North Carolina Certification #: 530
 North Dakota Certification #: R-036
 North Dakota Certification #: R-036A
 Ohio VAP Certification #: CL101
 Oklahoma Certification #: 9507
 Oregon Certification #: MN200001
 Oregon Certification #: MN300001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification
 Tennessee Certification #: 02818
 Texas Certification #: T104704192
 Utah Certification #: MN00064
 Virginia/DCLS Certification #: 002521
 Virginia/VELAP Certification #: 460163
 Washington Certification #: C754
 West Virginia Certification #: 382
 Wisconsin Certification #: 999407970

Montana Certification IDs

602 South 25th Street, Billings, MT 59101
 EPA Region 8 Certification #: 8TMS-Q
 Idaho Certification #: MT00012
 Montana Certification #: MT CERT0040

NVLAP Certification #: 101292-0
 Minnesota Dept of Health Certification #: 030-999-442
 Washington Department of Ecology #: C993

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
 A2LA Certification #: 2456.01
 Arkansas Certification #: 12-019-0
 Illinois Certification #: 002885
 Iowa Certification #: 118
 Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
 Nevada Certification #: KS000212008A
 Oklahoma Certification #: 9205/9935
 Texas Certification #: T104704407-12-3
 Utah Certification #: KS000212012-2
 Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60136463001	GW-1_20130103	Water	01/03/13 16:00	01/08/13 08:30
60136463002	GW-4_20130104	Water	01/04/13 11:08	01/08/13 08:30
60136463003	MW-101_20130104	Water	01/04/13 11:12	01/08/13 08:30
60136463004	MW-102_20130104	Water	01/04/13 11:31	01/08/13 08:30
60136463005	GW-7_20130104	Water	01/04/13 11:45	01/08/13 08:30
60136463006	MW-204_20130104	Water	01/04/13 12:01	01/08/13 08:30
60136463007	CHV-101_20130104	Water	01/04/13 12:11	01/08/13 08:30
60136463008	GW-6_20130104	Water	01/04/13 12:21	01/08/13 08:30
60136463009	EB-2_20130104	Water	01/04/13 12:35	01/08/13 08:30
60136463010	GW-5_20130104	Water	01/04/13 12:49	01/08/13 08:30
60136463011	EB-1_20130104	Water	01/04/13 13:00	01/08/13 08:30
60136463012	MW-4S_20130104	Water	01/04/13 13:06	01/08/13 08:30
60136463013	MW-4D_20130104	Water	01/04/13 13:17	01/08/13 08:30
60136463014	MW-1S_20130104	Water	01/04/13 13:30	01/08/13 08:30
60136463015	MW-1D_20130104	Water	01/04/13 13:40	01/08/13 08:30
60136463016	P13-103_20130104	Water	01/04/13 13:49	01/08/13 08:30
60136463017	DR-3_20130104	Water	01/04/13 14:08	01/08/13 08:30
60136463018	FB_20130104	Water	01/04/13 14:20	01/08/13 08:30
60136463019	P13-102_20130104	Water	01/04/13 14:35	01/08/13 08:30
60136463020	DR-4_20130104	Water	01/04/13 14:55	01/08/13 08:30
60136463021	DR-8_20130104	Water	01/04/13 15:07	01/08/13 08:30
60136463022	DR-5_20130104	Water	01/04/13 15:20	01/08/13 08:30
60136463023	MW-3D_20130104	Water	01/04/13 15:29	01/08/13 08:30
60136463024	GW-3_20130104	Water	01/04/13 15:41	01/08/13 08:30
60136463025	DR-6_20130105	Water	01/05/13 08:34	01/08/13 08:30
60136463026	MW-2D_20130105	Water	01/05/13 08:51	01/08/13 08:30
60136463027	MW-5S_20130105	Water	01/05/13 09:20	01/08/13 08:30
60136463028	MW-5D_20130105	Water	01/05/13 09:43	01/08/13 08:30
60136463029	MW-6S_20130105	Water	01/05/13 09:54	01/08/13 08:30
60136463030	MW-6D_20130105	Water	01/05/13 10:09	01/08/13 08:30
60136463031	MW-104_20130105	Water	01/05/13 10:20	01/08/13 08:30
60136463032	MW-103_20130105	Water	01/05/13 10:35	01/08/13 08:30

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463001	GW-1_20130103	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	OL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
60136463002	GW-4_20130104	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	OL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
60136463003	MW-101_20130104	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463004	MW-102_20130104	EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	OL	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
60136463005	GW-7_20130104	EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463006	MW-204_20130104	EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60136463007	CHV-101_20130104	SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463008	GW-6_20130104	SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2, TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
60136463009	EB-2_20130104	SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463010	GW-5_20130104	SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60136463011	EB-1_20130104	SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463012	MW-4S_20130104	SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
60136463013	MW-4D_20130104	EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
60136463014	MW-1S_20130104				

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463015	MW-1D_20130104	EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	SMW	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
60136463016	P13-103_20130104	SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463017	DR-3_20130104	EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
60136463018	FB_20130104	SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463019	P13-102_20130104	SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60136463020	DR-4_20130104	SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2, TT3	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463021	DR-8_20130104	SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
60136463022	DR-5_20130104	SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463023	MW-3D_20130104	EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2, TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60136463024	GW-3_20130104	SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2, TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463025	DR-6_20130105	SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
60136463026	MW-2D_20130105	SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
60136463027	MW-5S_20130105	Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463028	MW-5D_20130105	EPA 200.8	AS2, TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2, TT3	23	PASI-M
60136463029	MW-6S_20130105	EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463030	MW-6D_20130105	EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
60136463031	MW-104_20130105	SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2, TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	

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SAMPLE ANALYTE COUNT

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60136463032	MW-103_20130105	Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K
		EPA 200.7	TDS	4	PASI-K
		EPA 200.8	AS2	25	PASI-M
		EPA 200.8	AS2, TT3	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TJT	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	DJR	3	PASI-K
		SM 2540C	SEL	1	PASI-K
		SM 2540D	SEL	1	PASI-K
		SM 4500-S-2 D	AJM	1	PASI-K
		EPA 300.0	AJM	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
		SM 5310C	SEL	1	PASI-K

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Method: EPA 200.7

Description: 200.7 Potentially Diss. Metals

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/21105

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463001,60136463010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1123826)
 - Calcium, Dissolved
 - Magnesium, Dissolved

QC Batch: MPRP/21106

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463016,60136463025

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1123829)
 - Calcium, Dissolved
- MS (Lab ID: 1123831)
 - Calcium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 200.8**

Description: 200.8 MET ICPMS

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MPRP/37330

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1367701)
 - Barium
 - Zinc

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/37188

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463022

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- MSD (Lab ID: 1364958)
 - Aluminum

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1364957)
 - Silica
 - Total Hardness by 2340B
- MSD (Lab ID: 1364958)
 - Silica

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Method: **EPA 200.8**

Description: 200.8 MET ICPMS

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

QC Batch: MPRP/37188

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463022

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- Total Hardness by 2340B

QC Batch: MPRP/37187

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463001

- D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- MSD (Lab ID: 1362143)
 - Sodium

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1362142)
 - Silica
 - Total Hardness by 2340B
- MSD (Lab ID: 1362143)
 - Silica
 - Total Hardness by 2340B

QC Batch: MPRP/37330

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463006

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1367703)
 - Silica
 - Total Hardness by 2340B
 - MSD (Lab ID: 1367704)
 - Silica
 - Total Hardness by 2340B

Additional Comments:

Analyte Comments:

QC Batch: MPRP/37187

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 1362140)
- Copper

QC Batch: MPRP/37188

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1364957)
 - Calcium
- MSD (Lab ID: 1364958)
 - Calcium

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 200.8**

Description: 200.8 MET ICPMS

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

Analyte Comments:

QC Batch: MPRP/37330

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1367701)
 - Barium
 - Zinc

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1367703)
 - Calcium
- MSD (Lab ID: 1367704)
 - Calcium

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 200.8**

Description: 200.8 MET ICPMS, Dissolved

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MPRP/37190

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1362148)
 - Barium, Dissolved
 - Zinc, Dissolved

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/37190

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1364959)
 - Calcium, Dissolved
 - Magnesium, Dissolved
- MSD (Lab ID: 1364960)
 - Calcium, Dissolved
 - Magnesium, Dissolved
 - Sodium, Dissolved

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 200.8**

Description: 200.8 MET ICPMS, Dissolved

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

Additional Comments:

Analyte Comments:

QC Batch: MPRP/37190

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1362148)
 - Barium, Dissolved
 - Zinc, Dissolved

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1364959)
 - Calcium, Dissolved
- MSD (Lab ID: 1364960)
 - Calcium, Dissolved

QC Batch: MPRP/37283

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1365622)
 - Calcium, Dissolved
- MSD (Lab ID: 1365623)
 - Calcium, Dissolved

P8: Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

- BLANK (Lab ID: 1365620)
 - Sodium, Dissolved

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 200.8**

Description: 200.8 Potentially Diss. Metals

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MPRP/21108

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1123841)
 - Barium, Dissolved
 - Zinc, Dissolved

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/21107

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463001,60136463010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1123834)
 - Copper, Dissolved
- MS (Lab ID: 1123836)
 - Aluminum, Dissolved
 - Iron, Dissolved
- MSD (Lab ID: 1123835)
 - Manganese, Dissolved

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: EPA 200.8

Description: 200.8 Potentially Diss. Metals

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

QC Batch: MPRP/21108

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463016,60136463025

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1123843)
 - Iron, Dissolved
 - Manganese, Dissolved
- MS (Lab ID: 1123845)
 - Manganese, Dissolved
 - Zinc, Dissolved
- MSD (Lab ID: 1123844)
 - Iron, Dissolved
 - Manganese, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: MPRP/21107

1e: Post Digestion Spike Performed - 89.9% Recovery

- MS (Lab ID: 1123834)
 - Copper, Dissolved

QC Batch: MPRP/21108

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1123841)
 - Barium, Dissolved
 - Zinc, Dissolved
- FB_20130104 (Lab ID: 60136463018)
 - Barium, Dissolved
 - Zinc, Dissolved

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-2D_20130105 (Lab ID: 60136463026)
 - Nickel, Dissolved
- MW-3D_20130104 (Lab ID: 60136463023)
 - Nickel, Dissolved

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 245.1**

Description: 245.1 Mercury

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/7934

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463023,60136463032

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1367135)
- Mercury

QC Batch: MERP/7933

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463001,60136463020

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1362084)
- Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 245.1**

Description: 245.1 Mercury, Dissolved

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 245.1**

Description: 245.1 Potentially Diss Mercury

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **SM 2510B**

Description: 2510B Specific Conductance

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for SM 2510B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: Calculated

Description: Salinity

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for Calculated. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **SM 2320B**

Description: 2320B Alkalinity

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **SM 2540C**

Description: 2540C Total Dissolved Solids

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **SM 2540D**

Description: 2540D Total Suspended Solids

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **SM 4500-S-2 D**

Description: 4500S2D Sulfide, Total

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/39180

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1123494)
- Sulfide, Total

QC Batch: WET/39181

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463016

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1123499)
- Sulfide, Total

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 300.0**

Description: 300.0 IC Anions 28 Days

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: WETA/23192

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1125945)
 - Chloride
- BLANK (Lab ID: 1126202)
 - Chloride

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/23192

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1125945)
 - Chloride
- BLANK (Lab ID: 1126202)
 - Chloride
- MW-5S_20130105 (Lab ID: 60136463027)
 - Chloride

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **EPA 353.2**

Description: 353.2 Nitrogen, NO₂/NO₃ pres.

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/23196

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60136463022, 60136463023

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1125981)
- Nitrogen, NO₂ plus NO₃

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: **SM 4500-CN-E**

Description: 4500CNE Cyanide, Total

Client: BP Anderson Engineering Company Inc.

Date: February 12, 2013

General Information:

32 samples were analyzed for SM 4500-CN-E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WETA/23132

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1123383)
- Cyanide

Additional Comments:

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PROJECT NARRATIVE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Method: SM 5310C
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: February 12, 2013

General Information:

32 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-1_20130103	Lab ID: 60136463001	Collected: 01/03/13 16:00	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	57600 ug/L		500	5	01/09/13 16:00	01/17/13 11:59	7440-70-2	
Magnesium, Dissolved	7560 ug/L		250	5	01/09/13 16:00	01/17/13 11:59	7439-95-4	
Potassium, Dissolved	5440 ug/L		2500	5	01/09/13 16:00	01/17/13 11:59	7440-09-7	
Sodium, Dissolved	2730 ug/L		2500	5	01/09/13 16:00	01/17/13 11:59	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	6960 ug/L		4.0	1	01/14/13 12:40	01/22/13 11:15	7429-90-5	M6
Antimony	0.51 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7440-36-0	
Arsenic	11.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7440-38-2	
Barium	294 ug/L		0.30	1	01/14/13 12:40	01/22/13 11:15	7440-39-3	
Beryllium	0.91 ug/L		0.20	1	01/14/13 12:40	01/22/13 11:15	7440-41-7	
Cadmium	2.6 ug/L		0.080	1	01/14/13 12:40	01/22/13 11:15	7440-43-9	
Calcium	57800 ug/L		500	25	01/14/13 12:40	01/19/13 10:53	7440-70-2	
Chromium	7.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7440-47-3	
Cobalt	11.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7440-48-4	
Copper	74.8 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7440-50-8	
Iron	14000 ug/L		50.0	1	01/14/13 12:40	01/22/13 11:15	7439-89-6	M6
Lead	56.5 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:15	7439-92-1	
Magnesium	9740 ug/L		5.0	1	01/14/13 12:40	01/22/13 11:15	7439-95-4	M6
Manganese	2170 ug/L		2.5	5	01/14/13 12:40	01/22/13 13:51	7439-96-5	M6
Molybdenum	2.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7439-98-7	
Nickel	22.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7440-02-0	
Potassium	6680 ug/L		20.0	1	01/14/13 12:40	01/22/13 11:15	7440-09-7	M6
Selenium	2.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7782-49-2	
Silica	27500 ug/L		1340	25	01/14/13 12:40	01/19/13 10:53	7631-86-9	M1
Silver	1.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:15	7440-22-4	
Sodium	2950 ug/L		50.0	1	01/14/13 12:40	01/22/13 11:15	7440-23-5	M6
Thallium	0.15 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:15	7440-28-0	
Total Hardness by 2340B	185000 ug/L		1780	25	01/14/13 12:40	01/19/13 10:53		M1
Vanadium	15.1 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:15	7440-62-2	
Zinc	210 ug/L		5.0	1	01/14/13 12:40	01/22/13 11:15	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		4.0	1	01/15/13 09:12	01/18/13 14:29	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7440-38-2	
Barium, Dissolved	65.7 ug/L		0.30	1	01/15/13 09:12	01/17/13 11:24	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 11:24	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	01/15/13 09:12	01/17/13 11:24	7440-43-9	
Calcium, Dissolved	54300 ug/L		400	20	01/15/13 09:12	01/17/13 11:30	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7440-48-4	
Copper, Dissolved	0.89 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	01/15/13 09:12	01/17/13 11:24	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 11:24	7439-92-1	
Magnesium, Dissolved	6500 ug/L		5.0	1	01/15/13 09:12	01/17/13 11:24	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-1_20130103	Lab ID: 60136463001	Collected: 01/03/13 16:00	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	0.64 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7439-96-5	
Molybdenum, Dissolved	1.2 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7439-98-7	
Nickel, Dissolved	0.61 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7440-02-0	
Potassium, Dissolved	3950 ug/L		20.0	1	01/15/13 09:12	01/17/13 11:24	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/18/13 14:29	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:24	7440-22-4	
Sodium, Dissolved	2410 ug/L		50.0	1	01/15/13 09:12	01/17/13 11:24	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 11:24	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 11:24	7440-62-2	
Zinc, Dissolved	ND ug/L		5.0	1	01/15/13 09:12	01/17/13 11:24	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	2210 ug/L		50.0	1	01/09/13 16:00	01/22/13 12:43	7429-90-5	
Antimony, Dissolved	0.16J ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-36-0	
Arsenic, Dissolved	2.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-38-2	
Barium, Dissolved	228 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-39-3	
Beryllium, Dissolved	0.62 ug/L		0.50	1	01/09/13 16:00	01/22/13 12:43	7440-41-7	
Cadmium, Dissolved	2.2 ug/L		0.50	1	01/09/13 16:00	01/22/13 12:43	7440-43-9	
Chromium, Dissolved	2.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-47-3	
Cobalt, Dissolved	4.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-48-4	
Copper, Dissolved	50.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-50-8	M1
Iron, Dissolved	3930 ug/L		50.0	1	01/09/13 16:00	01/22/13 12:43	7439-89-6	
Lead, Dissolved	28.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7439-92-1	
Manganese, Dissolved	1000 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7439-96-5	M1
Molybdenum, Dissolved	0.59J ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7439-98-7	
Nickel, Dissolved	10.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-02-0	
Selenium, Dissolved	1.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7782-49-2	
Silver, Dissolved	0.60 ug/L		0.50	1	01/09/13 16:00	01/22/13 12:43	7440-22-4	
Thallium, Dissolved	0.077J ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-28-0	
Vanadium, Dissolved	4.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:43	7440-62-2	
Zinc, Dissolved	134 ug/L		10.0	1	01/09/13 16:00	01/22/13 12:43	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	0.62 ug/L		0.20	1	01/22/13 11:13	01/24/13 09:31	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 14:47	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 13:55	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	355 umhos/cm		10.0	1			01/14/13 11:21	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	227 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-1_20130103	Lab ID: 60136463001	Collected: 01/03/13 16:00	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.17 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	103 mg/L		20.0	1		01/09/13 09:08		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		01/09/13 09:08		
Alkalinity, Total as CaCO3	103 mg/L		20.0	1		01/09/13 09:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	210 mg/L		5.0	1		01/09/13 09:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	854 mg/L		5.0	1		01/09/13 09:33		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:52	18496-25-8	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	4.9 mg/L		1.0	1		01/10/13 12:50	16887-00-6	
Sulfate	60.2 mg/L		5.0	5		01/10/13 13:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND mg/L		0.10	1		01/15/13 08:15		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 11:24	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.6 mg/L		1.0	1		01/09/13 10:39	7440-44-0	

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-4_20130104	Lab ID: 60136463002	Collected: 01/04/13 11:08	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	215000 ug/L		500	5	01/09/13 16:00	01/17/13 12:08	7440-70-2	
Magnesium, Dissolved	24600 ug/L		250	5	01/09/13 16:00	01/17/13 12:08	7439-95-4	
Potassium, Dissolved	14100 ug/L		2500	5	01/09/13 16:00	01/17/13 12:08	7440-09-7	
Sodium, Dissolved	9170 ug/L		2500	5	01/09/13 16:00	01/17/13 12:08	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	3890 ug/L		4.0	1	01/14/13 12:40	01/22/13 11:32	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7440-36-0	
Arsenic	3.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7440-38-2	
Barium	91.0 ug/L		0.30	1	01/14/13 12:40	01/22/13 11:32	7440-39-3	
Beryllium	0.28 ug/L		0.20	1	01/14/13 12:40	01/22/13 11:32	7440-41-7	
Cadmium	2.4 ug/L		0.080	1	01/14/13 12:40	01/22/13 11:32	7440-43-9	
Calcium	216000 ug/L		400	20	01/14/13 12:40	01/19/13 11:14	7440-70-2	
Chromium	5.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7440-47-3	
Cobalt	2.8 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7440-48-4	
Copper	17.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7440-50-8	
Iron	7040 ug/L		50.0	1	01/14/13 12:40	01/22/13 11:32	7439-89-6	
Lead	13.9 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:32	7439-92-1	
Magnesium	25700 ug/L		100	20	01/14/13 12:40	01/19/13 11:14	7439-95-4	
Manganese	966 ug/L		10.0	20	01/14/13 12:40	01/19/13 11:14	7439-96-5	
Molybdenum	10.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7439-98-7	
Nickel	5.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7440-02-0	
Potassium	14700 ug/L		20.0	1	01/14/13 12:40	01/22/13 11:32	7440-09-7	
Selenium	0.54 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7782-49-2	
Silica	22700 ug/L		1070	20	01/14/13 12:40	01/19/13 11:14	7631-86-9	
Silver	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 11:32	7440-22-4	
Sodium	9690 ug/L		50.0	1	01/14/13 12:40	01/22/13 11:32	7440-23-5	
Thallium	0.12 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:32	7440-28-0	
Total Hardness by 2340B	646000 ug/L		1420	20	01/14/13 12:40	01/19/13 11:14		
Vanadium	8.2 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:32	7440-62-2	
Zinc	147 ug/L		5.0	1	01/14/13 12:40	01/22/13 11:32	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	28.0 ug/L		4.0	1	01/15/13 09:12	01/17/13 11:35	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7440-36-0	
Arsenic, Dissolved	0.92 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7440-38-2	
Barium, Dissolved	44.9 ug/L		0.30	1	01/15/13 09:12	01/17/13 11:35	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 11:35	7440-41-7	
Cadmium, Dissolved	0.21 ug/L		0.080	1	01/15/13 09:12	01/17/13 11:35	7440-43-9	
Calcium, Dissolved	217000 ug/L		400	20	01/15/13 09:12	01/17/13 11:41	7440-70-2	M1
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7440-47-3	
Cobalt, Dissolved	1.3 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7440-48-4	
Copper, Dissolved	1.2 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7440-50-8	
Iron, Dissolved	1420 ug/L		50.0	1	01/15/13 09:12	01/17/13 11:35	7439-89-6	
Lead, Dissolved	0.18 ug/L		0.10	1	01/15/13 09:12	01/17/13 11:35	7439-92-1	
Magnesium, Dissolved	21800 ug/L		5.0	1	01/15/13 09:12	01/17/13 11:35	7439-95-4	M1

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-4_20130104	Lab ID: 60136463002	Collected: 01/04/13 11:08	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	876 ug/L		10.0	20	01/15/13 09:12	01/17/13 11:41	7439-96-5	
Molybdenum, Dissolved	10.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7439-98-7	
Nickel, Dissolved	2.3 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7440-02-0	
Potassium, Dissolved	14200 ug/L		20.0	1	01/15/13 09:12	01/17/13 11:35	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:35	7440-22-4	
Sodium, Dissolved	8140 ug/L		50.0	1	01/15/13 09:12	01/17/13 11:35	7440-23-5	M1
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 11:35	7440-28-0	
Vanadium, Dissolved	0.27 ug/L		0.10	1	01/15/13 09:12	01/17/13 11:35	7440-62-2	
Zinc, Dissolved	32.0 ug/L		5.0	1	01/15/13 09:12	01/17/13 11:35	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1370 ug/L		50.0	1	01/09/13 16:00	01/22/13 12:59	7429-90-5	
Antimony, Dissolved	0.16J ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-36-0	
Arsenic, Dissolved	2.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-38-2	
Barium, Dissolved	52.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-39-3	
Beryllium, Dissolved	0.19J ug/L		0.50	1	01/09/13 16:00	01/22/13 12:59	7440-41-7	
Cadmium, Dissolved	2.8 ug/L		0.50	1	01/09/13 16:00	01/22/13 12:59	7440-43-9	
Chromium, Dissolved	2.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-47-3	
Cobalt, Dissolved	2.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-48-4	
Copper, Dissolved	14.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-50-8	
Iron, Dissolved	3870 ug/L		50.0	1	01/09/13 16:00	01/22/13 12:59	7439-89-6	
Lead, Dissolved	16.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7439-92-1	
Manganese, Dissolved	887 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7439-96-5	
Molybdenum, Dissolved	7.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7439-98-7	
Nickel, Dissolved	2.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-02-0	
Selenium, Dissolved	0.37J ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7782-49-2	
Silver, Dissolved	0.14J ug/L		0.50	1	01/09/13 16:00	01/22/13 12:59	7440-22-4	
Thallium, Dissolved	0.17J ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-28-0	
Vanadium, Dissolved	3.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 12:59	7440-62-2	
Zinc, Dissolved	152 ug/L		10.0	1	01/09/13 16:00	01/22/13 12:59	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 09:39	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:04	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 13:58	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1120 umhos/cm		10.0	1			01/14/13 11:22	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	718 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-4_20130104	Lab ID: 60136463002	Collected: 01/04/13 11:08	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.56	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	118	mg/L	20.0	1		01/09/13 09:12		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 09:12		
Alkalinity, Total as CaCO ₃	118	mg/L	20.0	1		01/09/13 09:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1230	mg/L	5.0	1		01/09/13 09:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	2580	mg/L	5.0	1		01/09/13 09:34		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:52 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	11.4	mg/L	1.0	1		01/10/13 14:41 16887-00-6		
Sulfate	554	mg/L	50.0	50		01/10/13 14:58 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 08:16		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 11:25 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	3.2	mg/L	1.0	1		01/09/13 11:07 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-101_20130104	Lab ID: 60136463003	Collected: 01/04/13 11:12	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	406000 ug/L		500	5	01/09/13 16:00	01/17/13 12:10	7440-70-2	
Magnesium, Dissolved	71600 ug/L		250	5	01/09/13 16:00	01/17/13 12:10	7439-95-4	
Potassium, Dissolved	8220 ug/L		2500	5	01/09/13 16:00	01/17/13 12:10	7440-09-7	
Sodium, Dissolved	39400 ug/L		2500	5	01/09/13 16:00	01/17/13 12:10	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	15600 ug/L		4.0	1	01/14/13 12:40	01/22/13 11:38	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7440-36-0	
Arsenic	13.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7440-38-2	
Barium	127 ug/L		0.30	1	01/14/13 12:40	01/22/13 11:38	7440-39-3	
Beryllium	2.5 ug/L		0.20	1	01/14/13 12:40	01/22/13 11:38	7440-41-7	
Cadmium	7.9 ug/L		0.080	1	01/14/13 12:40	01/22/13 11:38	7440-43-9	
Calcium	426000 ug/L		400	20	01/14/13 12:40	01/19/13 14:38	7440-70-2	
Chromium	24.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7440-47-3	
Cobalt	22.4 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7440-48-4	
Copper	95.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7440-50-8	
Iron	118000 ug/L		1000	20	01/14/13 12:40	01/19/13 14:38	7439-89-6	
Lead	1200 ug/L		2.0	20	01/14/13 12:40	01/19/13 14:38	7439-92-1	
Magnesium	76500 ug/L		100	20	01/14/13 12:40	01/19/13 14:38	7439-95-4	
Manganese	8830 ug/L		10.0	20	01/14/13 12:40	01/19/13 14:38	7439-96-5	
Molybdenum	6.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7439-98-7	
Nickel	35.6 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7440-02-0	
Potassium	10100 ug/L		20.0	1	01/14/13 12:40	01/22/13 11:38	7440-09-7	
Selenium	4.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7782-49-2	
Silica	64800 ug/L		1070	20	01/14/13 12:40	01/19/13 14:38	7631-86-9	
Silver	4.4 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:38	7440-22-4	
Sodium	39100 ug/L		1000	20	01/14/13 12:40	01/19/13 14:38	7440-23-5	
Thallium	0.42 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:38	7440-28-0	
Total Hardness by 2340B	1380000 ug/L		1420	20	01/14/13 12:40	01/19/13 14:38		
Vanadium	16.4 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:38	7440-62-2	
Zinc	2180 ug/L		100	20	01/14/13 12:40	01/19/13 14:38	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1000 ug/L		4.0	1	01/15/13 09:12	01/17/13 11:58	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7440-36-0	
Arsenic, Dissolved	0.84 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7440-38-2	
Barium, Dissolved	18.0 ug/L		0.30	1	01/15/13 09:12	01/17/13 11:58	7440-39-3	
Beryllium, Dissolved	0.71 ug/L		0.20	1	01/15/13 09:12	01/17/13 11:58	7440-41-7	
Cadmium, Dissolved	0.44 ug/L		0.080	1	01/15/13 09:12	01/17/13 11:58	7440-43-9	
Calcium, Dissolved	416000 ug/L		400	20	01/15/13 09:12	01/17/13 12:04	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7440-47-3	
Cobalt, Dissolved	20.3 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7440-48-4	
Copper, Dissolved	1.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7440-50-8	
Iron, Dissolved	93900 ug/L		1000	20	01/15/13 09:12	01/17/13 12:04	7439-89-6	
Lead, Dissolved	2.1 ug/L		0.10	1	01/15/13 09:12	01/17/13 11:58	7439-92-1	
Magnesium, Dissolved	72400 ug/L		100	20	01/15/13 09:12	01/17/13 12:04	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-101_20130104	Lab ID: 60136463003	Collected: 01/04/13 11:12	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	8600 ug/L		10.0	20	01/15/13 09:12	01/17/13 12:04	7439-96-5	
Molybdenum, Dissolved	1.7 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7439-98-7	
Nickel, Dissolved	26.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7440-02-0	
Potassium, Dissolved	8940 ug/L		20.0	1	01/15/13 09:12	01/17/13 11:58	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/18/13 14:52	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 11:58	7440-22-4	
Sodium, Dissolved	37300 ug/L		1000	20	01/15/13 09:12	01/17/13 12:04	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 11:58	7440-28-0	
Vanadium, Dissolved	0.11 ug/L		0.10	1	01/15/13 09:12	01/17/13 11:58	7440-62-2	
Zinc, Dissolved	1230 ug/L		100	20	01/15/13 09:12	01/17/13 12:04	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	6490 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:04	7429-90-5	
Antimony, Dissolved	0.091J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-36-0	
Arsenic, Dissolved	2.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-38-2	
Barium, Dissolved	22.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-39-3	
Beryllium, Dissolved	1.7 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:04	7440-41-7	
Cadmium, Dissolved	5.8 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:04	7440-43-9	
Chromium, Dissolved	8.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-47-3	
Cobalt, Dissolved	19.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-48-4	
Copper, Dissolved	38.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-50-8	
Iron, Dissolved	96500 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:04	7439-89-6	
Lead, Dissolved	808 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7439-92-1	
Manganese, Dissolved	8490 ug/L		100	100	01/09/13 16:00	01/22/13 14:18	7439-96-5	
Molybdenum, Dissolved	0.95J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7439-98-7	
Nickel, Dissolved	24.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-02-0	
Selenium, Dissolved	1.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 13:04	7440-22-4	
Thallium, Dissolved	0.18J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-28-0	
Vanadium, Dissolved	4.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:04	7440-62-2	
Zinc, Dissolved	1530 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:04	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 09:46	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:21	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:00	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2230 umhos/cm		10.0	1			01/14/13 11:25	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1430 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-101_20130104	Lab ID: 60136463003	Collected: 01/04/13 11:12	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.1	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	295	mg/L	20.0	1		01/09/13 09:16		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 09:16		
Alkalinity, Total as CaCO ₃	295	mg/L	20.0	1		01/09/13 09:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1560	mg/L	5.0	1		01/09/13 09:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	686	mg/L	5.0	1		01/09/13 09:34		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:53	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	3.4	mg/L	1.0	1		01/10/13 16:27	16887-00-6	
Sulfate	1340	mg/L	100	100		01/10/13 16:44	14808-79-8	
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 08:17		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 11:29	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.1	mg/L	1.0	1		01/09/13 11:36	7440-44-0	

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-102_20130104	Lab ID: 60136463004	Collected: 01/04/13 11:31	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	221000 ug/L		500	5	01/09/13 16:00	01/17/13 12:12	7440-70-2	
Magnesium, Dissolved	23000 ug/L		250	5	01/09/13 16:00	01/17/13 12:12	7439-95-4	
Potassium, Dissolved	2620 ug/L		2500	5	01/09/13 16:00	01/17/13 12:12	7440-09-7	
Sodium, Dissolved	6720 ug/L		2500	5	01/09/13 16:00	01/17/13 12:12	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	18400 ug/L		4.0	1	01/14/13 12:40	01/22/13 11:44	7429-90-5	
Antimony	0.72 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7440-36-0	
Arsenic	25.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7440-38-2	
Barium	134 ug/L		0.30	1	01/14/13 12:40	01/22/13 11:44	7440-39-3	
Beryllium	2.5 ug/L		0.20	1	01/14/13 12:40	01/22/13 11:44	7440-41-7	
Cadmium	4.4 ug/L		0.080	1	01/14/13 12:40	01/22/13 11:44	7440-43-9	
Calcium	234000 ug/L		400	20	01/14/13 12:40	01/19/13 14:59	7440-70-2	
Chromium	27.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7440-47-3	
Cobalt	34.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7440-48-4	
Copper	100 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7440-50-8	
Iron	29700 ug/L		1000	20	01/14/13 12:40	01/19/13 14:59	7439-89-6	
Lead	156 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:44	7439-92-1	
Magnesium	34500 ug/L		100	20	01/14/13 12:40	01/19/13 14:59	7439-95-4	
Manganese	3600 ug/L		10.0	20	01/14/13 12:40	01/19/13 14:59	7439-96-5	
Molybdenum	8.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7439-98-7	
Nickel	29.8 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7440-02-0	
Potassium	5000 ug/L		20.0	1	01/14/13 12:40	01/22/13 11:44	7440-09-7	
Selenium	8.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7782-49-2	
Silica	70400 ug/L		1070	20	01/14/13 12:40	01/19/13 14:59	7631-86-9	
Silver	0.64 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:44	7440-22-4	
Sodium	6580 ug/L		50.0	1	01/14/13 12:40	01/22/13 11:44	7440-23-5	
Thallium	0.30 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:44	7440-28-0	
Total Hardness by 2340B	725000 ug/L		1420	20	01/14/13 12:40	01/19/13 14:59		
Vanadium	28.4 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:44	7440-62-2	
Zinc	1080 ug/L		100	20	01/14/13 12:40	01/19/13 14:59	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	55.9 ug/L		4.0	1	01/15/13 09:12	01/17/13 12:39	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7440-38-2	
Barium, Dissolved	14.7 ug/L		0.30	1	01/15/13 09:12	01/17/13 12:39	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 12:39	7440-41-7	
Cadmium, Dissolved	0.45 ug/L		0.080	1	01/15/13 09:12	01/17/13 12:39	7440-43-9	
Calcium, Dissolved	233000 ug/L		400	20	01/15/13 09:12	01/17/13 12:44	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7440-48-4	
Copper, Dissolved	1.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7440-50-8	
Iron, Dissolved	62.5 ug/L		50.0	1	01/15/13 09:12	01/17/13 12:39	7439-89-6	
Lead, Dissolved	0.40 ug/L		0.10	1	01/15/13 09:12	01/17/13 12:39	7439-92-1	
Magnesium, Dissolved	21900 ug/L		5.0	1	01/15/13 09:12	01/17/13 12:39	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-102_20130104	Lab ID: 60136463004	Collected: 01/04/13 11:31	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	32.7 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7439-96-5	
Molybdenum, Dissolved	1.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7439-98-7	
Nickel, Dissolved	1.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7440-02-0	
Potassium, Dissolved	2920 ug/L		20.0	1	01/15/13 09:12	01/17/13 12:39	7440-09-7	
Selenium, Dissolved	2.1 ug/L		0.50	1	01/15/13 09:12	01/18/13 15:03	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:39	7440-22-4	
Sodium, Dissolved	6440 ug/L		50.0	1	01/15/13 09:12	01/17/13 12:39	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 12:39	7440-28-0	
Vanadium, Dissolved	0.13 ug/L		0.10	1	01/15/13 09:12	01/17/13 12:39	7440-62-2	
Zinc, Dissolved	70.2 ug/L		5.0	1	01/15/13 09:12	01/17/13 12:39	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	4550 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:08	7429-90-5	
Antimony, Dissolved	0.12J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-36-0	
Arsenic, Dissolved	3.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-38-2	
Barium, Dissolved	47.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-39-3	
Beryllium, Dissolved	1.6 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:08	7440-41-7	
Cadmium, Dissolved	3.0 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:08	7440-43-9	
Chromium, Dissolved	6.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-47-3	
Cobalt, Dissolved	9.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-48-4	
Copper, Dissolved	45.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-50-8	
Iron, Dissolved	4500 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:08	7439-89-6	
Lead, Dissolved	96.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7439-92-1	
Manganese, Dissolved	959 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7439-96-5	
Molybdenum, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7439-98-7	
Nickel, Dissolved	7.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-02-0	
Selenium, Dissolved	4.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7782-49-2	
Silver, Dissolved	0.30J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:08	7440-22-4	
Thallium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-28-0	
Vanadium, Dissolved	3.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:08	7440-62-2	
Zinc, Dissolved	511 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:08	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 09:49	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:24	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:02	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1140 umhos/cm		10.0	1			01/14/13 11:32	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	728 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-102_20130104	Lab ID: 60136463004	Collected: 01/04/13 11:31	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.56 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	200 mg/L		20.0	1		01/09/13 09:29		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		01/09/13 09:29		
Alkalinity, Total as CaCO ₃	200 mg/L		20.0	1		01/09/13 09:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	875 mg/L		5.0	1		01/09/13 09:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1610 mg/L		5.0	1		01/09/13 09:34		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.3 mg/L		1.0	1		01/10/13 17:02 16887-00-6		
Sulfate	464 mg/L		50.0	50		01/10/13 17:20 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	0.48 mg/L		0.10	1		01/15/13 14:19		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 11:29 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/09/13 12:18 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-7_20130104	Lab ID: 60136463005	Collected: 01/04/13 11:45	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	278000 ug/L		500	5	01/09/13 16:00	01/17/13 12:15	7440-70-2	
Magnesium, Dissolved	27800 ug/L		250	5	01/09/13 16:00	01/17/13 12:15	7439-95-4	
Potassium, Dissolved	2920 ug/L		2500	5	01/09/13 16:00	01/17/13 12:15	7440-09-7	
Sodium, Dissolved	7910 ug/L		2500	5	01/09/13 16:00	01/17/13 12:15	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	9320 ug/L		4.0	1	01/14/13 12:40	01/22/13 11:50	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7440-36-0	
Arsenic	12.8 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7440-38-2	
Barium	33.5 ug/L		0.30	1	01/14/13 12:40	01/22/13 11:50	7440-39-3	
Beryllium	1.2 ug/L		0.20	1	01/14/13 12:40	01/22/13 11:50	7440-41-7	
Cadmium	4.9 ug/L		0.080	1	01/14/13 12:40	01/22/13 11:50	7440-43-9	
Calcium	278000 ug/L		400	20	01/14/13 12:40	01/19/13 11:51	7440-70-2	
Chromium	13.6 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7440-47-3	
Cobalt	4.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7440-48-4	
Copper	172 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7440-50-8	
Iron	21800 ug/L		50.0	1	01/14/13 12:40	01/22/13 11:50	7439-89-6	
Lead	628 ug/L		2.0	20	01/14/13 12:40	01/19/13 11:51	7439-92-1	
Magnesium	31600 ug/L		100	20	01/14/13 12:40	01/19/13 11:51	7439-95-4	
Manganese	168 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7439-96-5	
Molybdenum	3.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7439-98-7	
Nickel	11.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7440-02-0	
Potassium	3920 ug/L		20.0	1	01/14/13 12:40	01/22/13 11:50	7440-09-7	
Selenium	7.6 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7782-49-2	
Silica	33600 ug/L		1070	20	01/14/13 12:40	01/19/13 11:51	7631-86-9	
Silver	2.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 11:50	7440-22-4	
Sodium	7360 ug/L		50.0	1	01/14/13 12:40	01/22/13 11:50	7440-23-5	
Thallium	0.31 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:50	7440-28-0	
Total Hardness by 2340B	824000 ug/L		1420	20	01/14/13 12:40	01/19/13 11:51		
Vanadium	9.6 ug/L		0.10	1	01/14/13 12:40	01/22/13 11:50	7440-62-2	
Zinc	847 ug/L		100	20	01/14/13 12:40	01/19/13 11:51	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	84.2 ug/L		4.0	1	01/15/13 09:12	01/17/13 12:50	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7440-38-2	
Barium, Dissolved	13.4 ug/L		0.30	1	01/15/13 09:12	01/17/13 12:50	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 12:50	7440-41-7	
Cadmium, Dissolved	3.3 ug/L		0.080	1	01/15/13 09:12	01/17/13 12:50	7440-43-9	
Calcium, Dissolved	283000 ug/L		400	20	01/15/13 09:12	01/17/13 12:55	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7440-47-3	
Cobalt, Dissolved	0.88 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7440-48-4	
Copper, Dissolved	4.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	01/15/13 09:12	01/17/13 12:50	7439-89-6	
Lead, Dissolved	3.9 ug/L		0.10	1	01/15/13 09:12	01/17/13 12:50	7439-92-1	
Magnesium, Dissolved	28500 ug/L		100	20	01/15/13 09:12	01/17/13 12:55	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-7_20130104	Lab ID: 60136463005	Collected: 01/04/13 11:45	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	33.3 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7439-96-5	
Molybdenum, Dissolved	1.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7439-98-7	
Nickel, Dissolved	3.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7440-02-0	
Potassium, Dissolved	2970 ug/L		20.0	1	01/15/13 09:12	01/17/13 12:50	7440-09-7	
Selenium, Dissolved	1.5 ug/L		0.50	1	01/15/13 09:12	01/18/13 15:31	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 12:50	7440-22-4	
Sodium, Dissolved	7470 ug/L		50.0	1	01/15/13 09:12	01/17/13 12:50	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 12:50	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 12:50	7440-62-2	
Zinc, Dissolved	186 ug/L		5.0	1	01/15/13 09:12	01/17/13 12:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	8890 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:12	7429-90-5	
Antimony, Dissolved	0.14J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-36-0	
Arsenic, Dissolved	4.9 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-38-2	
Barium, Dissolved	19.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-39-3	
Beryllium, Dissolved	1.6 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:12	7440-41-7	
Cadmium, Dissolved	4.8 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:12	7440-43-9	
Chromium, Dissolved	7.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-47-3	
Cobalt, Dissolved	3.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-48-4	
Copper, Dissolved	241 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-50-8	
Iron, Dissolved	18600 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:12	7439-89-6	
Lead, Dissolved	1020 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7439-92-1	
Manganese, Dissolved	100 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7439-96-5	
Molybdenum, Dissolved	0.96J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7439-98-7	
Nickel, Dissolved	6.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-02-0	
Selenium, Dissolved	4.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7782-49-2	
Silver, Dissolved	0.76 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:12	7440-22-4	
Thallium, Dissolved	0.23J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-28-0	
Vanadium, Dissolved	2.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:12	7440-62-2	
Zinc, Dissolved	645 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:12	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 09:51	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:26	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:04	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1360 umhos/cm		10.0	1			01/14/13 11:34	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	868 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-7_20130104	Lab ID: 60136463005	Collected: 01/04/13 11:45	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.68 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	246 mg/L		20.0	1		01/09/13 09:33		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		01/09/13 09:33		
Alkalinity, Total as CaCO3	246 mg/L		20.0	1		01/09/13 09:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1090 mg/L		5.0	1		01/09/13 09:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1090 mg/L		5.0	1		01/09/13 09:34		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.3 mg/L		1.0	1		01/10/13 18:13 16887-00-6		
Sulfate	590 mg/L		50.0	50		01/10/13 18:31 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.44 mg/L		0.10	1		01/15/13 14:20		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 11:31 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.0 mg/L		1.0	1		01/09/13 12:32 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-204_20130104	Lab ID: 60136463006	Collected: 01/04/13 12:01	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	208000 ug/L		500	5	01/09/13 16:00	01/17/13 12:21	7440-70-2	
Magnesium, Dissolved	25400 ug/L		250	5	01/09/13 16:00	01/17/13 12:21	7439-95-4	
Potassium, Dissolved	5960 ug/L		2500	5	01/09/13 16:00	01/17/13 12:21	7440-09-7	
Sodium, Dissolved	29400 ug/L		2500	5	01/09/13 16:00	01/17/13 12:21	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	7940 ug/L		4.0	1	01/23/13 12:34	01/23/13 16:25	7429-90-5	M6
Antimony	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7440-36-0	
Arsenic	2.5 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7440-38-2	
Barium	81.5 ug/L		0.30	1	01/23/13 12:34	01/23/13 16:25	7440-39-3	
Beryllium	0.38 ug/L		0.20	1	01/23/13 12:34	01/23/13 16:25	7440-41-7	
Cadmium	3.3 ug/L		0.080	1	01/23/13 12:34	01/23/13 16:25	7440-43-9	
Calcium	282000 ug/L		400	20	01/23/13 12:34	01/23/13 16:30	7440-70-2	M6
Chromium	13.1 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7440-47-3	
Cobalt	4.2 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7440-48-4	
Copper	11.8 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7440-50-8	
Iron	9110 ug/L		50.0	1	01/23/13 12:34	01/23/13 16:25	7439-89-6	M6
Lead	20.5 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:25	7439-92-1	
Magnesium	27900 ug/L		100	20	01/23/13 12:34	01/23/13 16:30	7439-95-4	M6
Manganese	1130 ug/L		10.0	20	01/23/13 12:34	01/23/13 16:30	7439-96-5	M6
Molybdenum	4.2 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7439-98-7	
Nickel	8.3 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7440-02-0	
Potassium	4290 ug/L		20.0	1	01/23/13 12:34	01/23/13 16:25	7440-09-7	M6
Selenium	0.60 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7782-49-2	
Silica	49300 ug/L		1070	20	01/23/13 12:34	01/23/13 16:30	7631-86-9	M1
Silver	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:25	7440-22-4	
Sodium	12100 ug/L		50.0	1	01/23/13 12:34	01/23/13 16:25	7440-23-5	M6
Thallium	0.16 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:25	7440-28-0	
Total Hardness by 2340B	819000 ug/L		1420	20	01/23/13 12:34	01/23/13 16:30		M1
Vanadium	12.6 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:25	7440-62-2	
Zinc	61.6 ug/L		5.0	1	01/23/13 12:34	01/23/13 16:25	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	22.7 ug/L		4.0	1	01/15/13 09:12	01/17/13 13:00	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7440-38-2	
Barium, Dissolved	33.1 ug/L		0.30	1	01/15/13 09:12	01/17/13 13:00	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 13:00	7440-41-7	
Cadmium, Dissolved	0.23 ug/L		0.080	1	01/15/13 09:12	01/17/13 13:00	7440-43-9	
Calcium, Dissolved	243000 ug/L		400	20	01/15/13 09:12	01/17/13 13:06	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7440-47-3	
Cobalt, Dissolved	0.55 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7440-48-4	
Copper, Dissolved	0.56 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7440-50-8	
Iron, Dissolved	89.1 ug/L		50.0	1	01/15/13 09:12	01/17/13 13:00	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:00	7439-92-1	
Magnesium, Dissolved	20000 ug/L		5.0	1	01/15/13 09:12	01/17/13 13:00	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-204_20130104	Lab ID: 60136463006	Collected: 01/04/13 12:01	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	871 ug/L		10.0	20	01/15/13 09:12	01/17/13 13:06	7439-96-5	
Molybdenum, Dissolved	3.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7439-98-7	
Nickel, Dissolved	1.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7440-02-0	
Potassium, Dissolved	2250 ug/L		20.0	1	01/15/13 09:12	01/17/13 13:00	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:00	7440-22-4	
Sodium, Dissolved	10300 ug/L		50.0	1	01/15/13 09:12	01/17/13 13:00	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:00	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:00	7440-62-2	
Zinc, Dissolved	8.2 ug/L		5.0	1	01/15/13 09:12	01/17/13 13:00	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1280 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:24	7429-90-5	
Antimony, Dissolved	0.074J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-36-0	
Arsenic, Dissolved	0.71J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-38-2	
Barium, Dissolved	43.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-39-3	
Beryllium, Dissolved	0.28J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:24	7440-41-7	
Cadmium, Dissolved	3.7 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:24	7440-43-9	
Chromium, Dissolved	4.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-47-3	
Cobalt, Dissolved	3.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-48-4	
Copper, Dissolved	7.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-50-8	
Iron, Dissolved	2720 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:24	7439-89-6	
Lead, Dissolved	22.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7439-92-1	
Manganese, Dissolved	930 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7439-96-5	
Molybdenum, Dissolved	2.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7439-98-7	
Nickel, Dissolved	3.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 13:24	7440-22-4	
Thallium, Dissolved	0.064J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-28-0	
Vanadium, Dissolved	2.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:24	7440-62-2	
Zinc, Dissolved	41.4 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:24	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 09:54	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:29	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:07	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1180 umhos/cm		10.0	1			01/14/13 11:37	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	756 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-204_20130104	Lab ID: 60136463006	Collected: 01/04/13 12:01	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.59	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	115	mg/L	20.0	1		01/09/13 09:38		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		01/09/13 09:38		
Alkalinity, Total as CaCO3	115	mg/L	20.0	1		01/09/13 09:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1010	mg/L	5.0	1		01/09/13 09:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	325	mg/L	5.0	1		01/09/13 09:35		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.3	mg/L	1.0	1		01/10/13 18:48 16887-00-6		
Sulfate	628	mg/L	50.0	50		01/10/13 19:06 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		01/15/13 14:21		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 11:32 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 12:47 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: CHV-101_20130104	Lab ID: 60136463007	Collected: 01/04/13 12:11	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	209000 ug/L		500	5	01/09/13 16:00	01/17/13 12:23	7440-70-2	
Magnesium, Dissolved	25600 ug/L		250	5	01/09/13 16:00	01/17/13 12:23	7439-95-4	
Potassium, Dissolved	6020 ug/L		2500	5	01/09/13 16:00	01/17/13 12:23	7440-09-7	
Sodium, Dissolved	29500 ug/L		2500	5	01/09/13 16:00	01/17/13 12:23	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	6140 ug/L		4.0	1	01/23/13 12:34	01/23/13 16:46	7429-90-5	
Antimony	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7440-36-0	
Arsenic	4.7 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7440-38-2	
Barium	192 ug/L		0.30	1	01/23/13 12:34	01/23/13 16:46	7440-39-3	
Beryllium	0.37 ug/L		0.20	1	01/23/13 12:34	01/23/13 16:46	7440-41-7	
Cadmium	0.30 ug/L		0.080	1	01/23/13 12:34	01/23/13 16:46	7440-43-9	
Calcium	255000 ug/L		400	20	01/23/13 12:34	01/23/13 16:51	7440-70-2	
Chromium	10.0 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7440-47-3	
Cobalt	5.6 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7440-48-4	
Copper	10.9 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7440-50-8	
Iron	8370 ug/L		50.0	1	01/23/13 12:34	01/23/13 16:46	7439-89-6	
Lead	11.4 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:46	7439-92-1	
Magnesium	30800 ug/L		100	20	01/23/13 12:34	01/23/13 16:51	7439-95-4	
Manganese	6950 ug/L		10.0	20	01/23/13 12:34	01/23/13 16:51	7439-96-5	
Molybdenum	25.8 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7439-98-7	
Nickel	6.8 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7440-02-0	
Potassium	9080 ug/L		20.0	1	01/23/13 12:34	01/23/13 16:46	7440-09-7	
Selenium	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7782-49-2	
Silica	44200 ug/L		1070	20	01/23/13 12:34	01/23/13 16:51	7631-86-9	
Silver	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:46	7440-22-4	
Sodium	31100 ug/L		1000	20	01/23/13 12:34	01/23/13 16:51	7440-23-5	
Thallium	0.18 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:46	7440-28-0	
Total Hardness by 2340B	763000 ug/L		1420	20	01/23/13 12:34	01/23/13 16:51		
Vanadium	10.9 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:46	7440-62-2	
Zinc	71.9 ug/L		5.0	1	01/23/13 12:34	01/23/13 16:46	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	13.3 ug/L		4.0	1	01/15/13 09:12	01/17/13 13:11	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7440-36-0	
Arsenic, Dissolved	0.66 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7440-38-2	
Barium, Dissolved	50.9 ug/L		0.30	1	01/15/13 09:12	01/17/13 13:11	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 13:11	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	01/15/13 09:12	01/17/13 13:11	7440-43-9	
Calcium, Dissolved	221000 ug/L		400	20	01/15/13 09:12	01/17/13 13:16	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7440-47-3	
Cobalt, Dissolved	2.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7440-48-4	
Copper, Dissolved	0.57 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7440-50-8	
Iron, Dissolved	152 ug/L		50.0	1	01/15/13 09:12	01/17/13 13:11	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:11	7439-92-1	
Magnesium, Dissolved	26600 ug/L		100	20	01/15/13 09:12	01/17/13 13:16	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: CHV-101_20130104	Lab ID: 60136463007	Collected: 01/04/13 12:11	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	6040 ug/L		10.0	20	01/15/13 09:12	01/17/13 13:16	7439-96-5	
Molybdenum, Dissolved	23.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7439-98-7	
Nickel, Dissolved	1.3 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7440-02-0	
Potassium, Dissolved	6760 ug/L		20.0	1	01/15/13 09:12	01/17/13 13:11	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:11	7440-22-4	
Sodium, Dissolved	28400 ug/L		1000	20	01/15/13 09:12	01/17/13 13:16	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:11	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:11	7440-62-2	
Zinc, Dissolved	12.8 ug/L		5.0	1	01/15/13 09:12	01/17/13 13:11	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	476 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:28	7429-90-5	
Antimony, Dissolved	0.083J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-36-0	
Arsenic, Dissolved	1.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-38-2	
Barium, Dissolved	46.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-39-3	
Beryllium, Dissolved	0.11J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:28	7440-41-7	
Cadmium, Dissolved	0.17J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:28	7440-43-9	
Chromium, Dissolved	2.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-47-3	
Cobalt, Dissolved	2.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-48-4	
Copper, Dissolved	2.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-50-8	
Iron, Dissolved	1190 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:28	7439-89-6	
Lead, Dissolved	5.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7439-92-1	
Manganese, Dissolved	5950 ug/L		100	100	01/09/13 16:00	01/22/13 14:22	7439-96-5	
Molybdenum, Dissolved	18.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7439-98-7	
Nickel, Dissolved	0.80J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 13:28	7440-22-4	
Thallium, Dissolved	0.068J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-28-0	
Vanadium, Dissolved	1.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:28	7440-62-2	
Zinc, Dissolved	32.1 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:28	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 09:56	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:31	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:09	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1190 umhos/cm		10.0	1			01/14/13 11:38	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	762 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: CHV-101_20130104	Lab ID: 60136463007	Collected: 01/04/13 12:11	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.59	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	149	mg/L	20.0	1		01/09/13 09:42		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 09:42		
Alkalinity, Total as CaCO ₃	149	mg/L	20.0	1		01/09/13 09:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	969	mg/L	5.0	1		01/09/13 09:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	414	mg/L	5.0	1		01/09/13 09:35		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	2.2	mg/L	1.0	1		01/10/13 19:24 16887-00-6		
Sulfate	582	mg/L	50.0	50		01/10/13 19:41 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:22		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 11:33 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 13:01 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-6_20130104	Lab ID: 60136463008	Collected: 01/04/13 12:21	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	427000 ug/L		500	5	01/09/13 16:00	01/17/13 12:26	7440-70-2	
Magnesium, Dissolved	89400 ug/L		250	5	01/09/13 16:00	01/17/13 12:26	7439-95-4	
Potassium, Dissolved	23400 ug/L		2500	5	01/09/13 16:00	01/17/13 12:26	7440-09-7	
Sodium, Dissolved	4980 ug/L		2500	5	01/09/13 16:00	01/17/13 12:26	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	15900 ug/L		4.0	1	01/14/13 12:40	01/19/13 12:05	7429-90-5	
Antimony	2.3 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7440-36-0	
Arsenic	320 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7440-38-2	
Barium	75.2 ug/L		0.30	1	01/14/13 12:40	01/19/13 12:05	7440-39-3	
Beryllium	3.0 ug/L		0.20	1	01/14/13 12:40	01/22/13 12:20	7440-41-7	
Cadmium	42.9 ug/L		0.080	1	01/14/13 12:40	01/19/13 12:05	7440-43-9	
Calcium	424000 ug/L		400	20	01/14/13 12:40	01/19/13 12:11	7440-70-2	
Chromium	19.3 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7440-47-3	
Cobalt	16.6 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7440-48-4	
Copper	556 ug/L		10.0	20	01/14/13 12:40	01/19/13 12:11	7440-50-8	
Iron	196000 ug/L		1000	20	01/14/13 12:40	01/19/13 12:11	7439-89-6	
Lead	6010 ug/L		2.0	20	01/14/13 12:40	01/19/13 12:11	7439-92-1	
Magnesium	92300 ug/L		100	20	01/14/13 12:40	01/19/13 12:11	7439-95-4	
Manganese	22800 ug/L		50.0	100	01/14/13 12:40	01/19/13 12:16	7439-96-5	
Molybdenum	11.8 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7439-98-7	
Nickel	25.6 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7440-02-0	
Potassium	26400 ug/L		400	20	01/14/13 12:40	01/19/13 12:11	7440-09-7	
Selenium	2.2 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7782-49-2	
Silica	86500 ug/L		1070	20	01/14/13 12:40	01/19/13 12:11	7631-86-9	
Silver	8.9 ug/L		0.50	1	01/14/13 12:40	01/19/13 12:05	7440-22-4	
Sodium	4680 ug/L		50.0	1	01/14/13 12:40	01/19/13 12:05	7440-23-5	
Thallium	0.89 ug/L		0.10	1	01/14/13 12:40	01/19/13 12:05	7440-28-0	
Total Hardness by 2340B	1440000 ug/L		1420	20	01/14/13 12:40	01/19/13 12:11		
Vanadium	32.2 ug/L		0.10	1	01/14/13 12:40	01/19/13 12:05	7440-62-2	
Zinc	13000 ug/L		500	100	01/14/13 12:40	01/19/13 12:16	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	100 ug/L		4.0	1	01/15/13 09:12	01/17/13 13:22	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7440-36-0	
Arsenic, Dissolved	82.2 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7440-38-2	
Barium, Dissolved	17.5 ug/L		0.30	1	01/15/13 09:12	01/17/13 13:22	7440-39-3	
Beryllium, Dissolved	0.76 ug/L		0.20	1	01/15/13 09:12	01/17/13 13:22	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	01/15/13 09:12	01/17/13 13:22	7440-43-9	
Calcium, Dissolved	423000 ug/L		400	20	01/15/13 09:12	01/17/13 13:27	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7440-47-3	
Cobalt, Dissolved	2.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7440-48-4	
Copper, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7440-50-8	
Iron, Dissolved	133000 ug/L		1000	20	01/15/13 09:12	01/17/13 13:27	7439-89-6	
Lead, Dissolved	0.46 ug/L		0.10	1	01/15/13 09:12	01/17/13 13:22	7439-92-1	
Magnesium, Dissolved	85900 ug/L		100	20	01/15/13 09:12	01/17/13 13:27	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-6_20130104	Lab ID: 60136463008	Collected: 01/04/13 12:21	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	20000 ug/L		50.0	100	01/15/13 09:12	01/22/13 12:44	7439-96-5	
Molybdenum, Dissolved	11.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7439-98-7	
Nickel, Dissolved	1.7 ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7440-02-0	
Potassium, Dissolved	23000 ug/L		400	20	01/15/13 09:12	01/17/13 13:27	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 13:22	7440-22-4	
Sodium, Dissolved	4310 ug/L		50.0	1	01/15/13 09:12	01/17/13 13:22	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:22	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 13:22	7440-62-2	
Zinc, Dissolved	5160 ug/L		100	20	01/15/13 09:12	01/18/13 15:42	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	8140 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:33	7429-90-5	
Antimony, Dissolved	1.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-36-0	
Arsenic, Dissolved	283 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-38-2	
Barium, Dissolved	18.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-39-3	
Beryllium, Dissolved	2.4 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:33	7440-41-7	
Cadmium, Dissolved	28.5 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:33	7440-43-9	
Chromium, Dissolved	9.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-47-3	
Cobalt, Dissolved	8.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-48-4	
Copper, Dissolved	264 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-50-8	
Iron, Dissolved	166000 ug/L		10000	200	01/09/13 16:00	01/22/13 14:26	7439-89-6	
Lead, Dissolved	4580 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7439-92-1	
Manganese, Dissolved	22200 ug/L		200	200	01/09/13 16:00	01/22/13 14:26	7439-96-5	
Molybdenum, Dissolved	6.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7439-98-7	
Nickel, Dissolved	10.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-02-0	
Selenium, Dissolved	1.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 13:33	7440-22-4	
Thallium, Dissolved	0.41J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-28-0	
Vanadium, Dissolved	19.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:33	7440-62-2	
Zinc, Dissolved	9760 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:33	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 09:58	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:34	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:18	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2220 umhos/cm		10.0	1			01/14/13 11:40	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1420 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-6_20130104	Lab ID: 60136463008	Collected: 01/04/13 12:21	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.1	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	60.8	mg/L	20.0	1		01/09/13 09:45		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 09:45		
Alkalinity, Total as CaCO ₃	60.8	mg/L	20.0	1		01/09/13 09:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	2440	mg/L	5.0	1		01/09/13 09:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1500	mg/L	5.0	1		01/09/13 09:35		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.1	mg/L	1.0	1		01/10/13 19:59 16887-00-6		
Sulfate	1880	mg/L	100	100		01/10/13 20:17 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:23		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 11:33 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.4	mg/L	1.0	1		01/09/13 13:15 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: EB-2_20130104	Lab ID: 60136463009	Collected: 01/04/13 12:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	322000 ug/L		500	5	01/09/13 16:00	01/17/13 12:28	7440-70-2	
Magnesium, Dissolved	103000 ug/L		250	5	01/09/13 16:00	01/17/13 12:28	7439-95-4	
Potassium, Dissolved	11400 ug/L		2500	5	01/09/13 16:00	01/17/13 12:28	7440-09-7	
Sodium, Dissolved	7170 ug/L		2500	5	01/09/13 16:00	01/17/13 12:28	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	8990 ug/L		4.0	1	01/14/13 12:40	01/22/13 12:26	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7440-36-0	
Arsenic	198 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7440-38-2	
Barium	15.0 ug/L		0.30	1	01/14/13 12:40	01/22/13 12:26	7440-39-3	
Beryllium	4.2 ug/L		0.20	1	01/14/13 12:40	01/22/13 12:26	7440-41-7	
Cadmium	1.4 ug/L		0.080	1	01/14/13 12:40	01/22/13 12:26	7440-43-9	
Calcium	328000 ug/L		400	20	01/14/13 12:40	01/19/13 12:26	7440-70-2	
Chromium	1.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7440-47-3	
Cobalt	43.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7440-48-4	
Copper	27.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7440-50-8	
Iron	406000 ug/L		1000	20	01/14/13 12:40	01/19/13 12:26	7439-89-6	
Lead	192 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:26	7439-92-1	
Magnesium	103000 ug/L		100	20	01/14/13 12:40	01/19/13 12:26	7439-95-4	
Manganese	22000 ug/L		50.0	100	01/14/13 12:40	01/19/13 12:46	7439-96-5	
Molybdenum	4.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7439-98-7	
Nickel	60.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7440-02-0	
Potassium	12100 ug/L		20.0	1	01/14/13 12:40	01/22/13 12:26	7440-09-7	
Selenium	1.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7782-49-2	
Silica	35200 ug/L		1070	20	01/14/13 12:40	01/19/13 12:26	7631-86-9	
Silver	0.60 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:26	7440-22-4	
Sodium	6720 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:26	7440-23-5	
Thallium	ND ug/L		0.10	1	01/14/13 12:40	01/22/13 12:26	7440-28-0	
Total Hardness by 2340B	1240000 ug/L		1420	20	01/14/13 12:40	01/19/13 12:26		
Vanadium	0.54 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:26	7440-62-2	
Zinc	31300 ug/L		500	100	01/14/13 12:40	01/19/13 12:46	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	9200 ug/L		4.0	1	01/15/13 09:12	01/17/13 14:04	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7440-36-0	
Arsenic, Dissolved	154 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7440-38-2	
Barium, Dissolved	12.1 ug/L		0.30	1	01/15/13 09:12	01/17/13 14:04	7440-39-3	
Beryllium, Dissolved	4.0 ug/L		0.20	1	01/15/13 09:12	01/17/13 14:04	7440-41-7	
Cadmium, Dissolved	0.52 ug/L		0.080	1	01/15/13 09:12	01/17/13 14:04	7440-43-9	
Calcium, Dissolved	330000 ug/L		400	20	01/15/13 09:12	01/17/13 14:09	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7440-47-3	
Cobalt, Dissolved	39.2 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7440-48-4	
Copper, Dissolved	4.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7440-50-8	
Iron, Dissolved	393000 ug/L		1000	20	01/15/13 09:12	01/17/13 14:09	7439-89-6	
Lead, Dissolved	31.3 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:04	7439-92-1	
Magnesium, Dissolved	105000 ug/L		100	20	01/15/13 09:12	01/17/13 14:09	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: EB-2_20130104	Lab ID: 60136463009	Collected: 01/04/13 12:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	22600 ug/L		50.0	100	01/15/13 09:12	01/18/13 15:47	7439-96-5	
Molybdenum, Dissolved	4.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7439-98-7	
Nickel, Dissolved	53.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7440-02-0	
Potassium, Dissolved	12600 ug/L		20.0	1	01/15/13 09:12	01/17/13 14:04	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:04	7440-22-4	
Sodium, Dissolved	6270 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:04	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 14:04	7440-28-0	
Vanadium, Dissolved	0.10 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:04	7440-62-2	
Zinc, Dissolved	31500 ug/L		500	100	01/15/13 09:12	01/18/13 15:47	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	9020 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:37	7429-90-5	
Antimony, Dissolved	0.15J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-36-0	
Arsenic, Dissolved	190 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-38-2	
Barium, Dissolved	11.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-39-3	
Beryllium, Dissolved	3.9 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:37	7440-41-7	
Cadmium, Dissolved	0.90 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:37	7440-43-9	
Chromium, Dissolved	0.52J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-47-3	
Cobalt, Dissolved	42.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-48-4	
Copper, Dissolved	16.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-50-8	
Iron, Dissolved	366000 ug/L		10000	200	01/09/13 16:00	01/22/13 14:31	7439-89-6	
Lead, Dissolved	209 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7439-92-1	
Manganese, Dissolved	20900 ug/L		200	200	01/09/13 16:00	01/22/13 14:31	7439-96-5	
Molybdenum, Dissolved	4.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7439-98-7	
Nickel, Dissolved	56.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-02-0	
Selenium, Dissolved	0.92J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 13:37	7440-22-4	
Thallium, Dissolved	0.059J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:37	7440-62-2	
Zinc, Dissolved	30900 ug/L		2000	200	01/09/13 16:00	01/22/13 14:31	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:01	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:45	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:20	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2560 umhos/cm		10.0	1			01/14/13 11:41	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1640 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: EB-2_20130104	Lab ID: 60136463009	Collected: 01/04/13 12:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.3	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	108	mg/L	20.0	1		01/09/13 09:48		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		01/09/13 09:48		
Alkalinity, Total as CaCO3	108	mg/L	20.0	1		01/09/13 09:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	2670	mg/L	5.0	1		01/09/13 09:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	122	mg/L	5.0	1		01/09/13 09:35		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	0.055	mg/L	0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.9	mg/L	1.0	1		01/11/13 13:24 16887-00-6		
Sulfate	2940	mg/L	200	200		01/11/13 13:42 14808-79-8 M6		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		01/15/13 14:24		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 11:36 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 13:29 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-5_20130104	Lab ID: 60136463010	Collected: 01/04/13 12:49	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	640000 ug/L		500	5	01/09/13 16:00	01/17/13 12:30	7440-70-2	M1
Magnesium, Dissolved	65200 ug/L		250	5	01/09/13 16:00	01/17/13 12:30	7439-95-4	M1
Potassium, Dissolved	5370 ug/L		2500	5	01/09/13 16:00	01/17/13 12:30	7440-09-7	
Sodium, Dissolved	6720 ug/L		2500	5	01/09/13 16:00	01/17/13 12:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	36500 ug/L		80.0	20	01/14/13 12:40	01/19/13 12:57	7429-90-5	
Antimony	3.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:32	7440-36-0	
Arsenic	1120 ug/L		10.0	20	01/14/13 12:40	01/19/13 12:57	7440-38-2	
Barium	142 ug/L		0.30	1	01/14/13 12:40	01/22/13 12:32	7440-39-3	
Beryllium	3.4 ug/L		0.20	1	01/14/13 12:40	01/22/13 12:32	7440-41-7	
Cadmium	298 ug/L		0.080	1	01/14/13 12:40	01/22/13 12:32	7440-43-9	
Calcium	612000 ug/L		2000	100	01/14/13 12:40	01/19/13 13:03	7440-70-2	
Chromium	37.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:32	7440-47-3	
Cobalt	77.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:32	7440-48-4	
Copper	5000 ug/L		10.0	20	01/14/13 12:40	01/19/13 12:57	7440-50-8	
Iron	192000 ug/L		1000	20	01/14/13 12:40	01/19/13 12:57	7439-89-6	
Lead	37500 ug/L		10.0	100	01/14/13 12:40	01/19/13 13:03	7439-92-1	
Magnesium	71800 ug/L		100	20	01/14/13 12:40	01/19/13 12:57	7439-95-4	
Manganese	14200 ug/L		50.0	100	01/14/13 12:40	01/19/13 13:03	7439-96-5	
Molybdenum	41.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:32	7439-98-7	
Nickel	116 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:32	7440-02-0	
Potassium	9180 ug/L		20.0	1	01/14/13 12:40	01/22/13 12:32	7440-09-7	
Selenium	11.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:32	7782-49-2	
Silica	143000 ug/L		5350	100	01/14/13 12:40	01/19/13 13:03	7631-86-9	
Silver	108 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:32	7440-22-4	
Sodium	6040 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:32	7440-23-5	
Thallium	4.5 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:32	7440-28-0	
Total Hardness by 2340B	1820000 ug/L		7100	100	01/14/13 12:40	01/19/13 13:03		
Vanadium	53.6 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:32	7440-62-2	
Zinc	79100 ug/L		1000	200	01/14/13 12:40	01/22/13 12:38	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1030 ug/L		4.0	1	01/15/13 09:12	01/17/13 14:15	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7440-36-0	
Arsenic, Dissolved	75.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7440-38-2	
Barium, Dissolved	20.9 ug/L		0.30	1	01/15/13 09:12	01/17/13 14:15	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 14:15	7440-41-7	
Cadmium, Dissolved	9.7 ug/L		0.080	1	01/15/13 09:12	01/17/13 14:15	7440-43-9	
Calcium, Dissolved	620000 ug/L		1000	50	01/15/13 09:12	01/18/13 15:52	7440-70-2	
Chromium, Dissolved	1.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7440-47-3	
Cobalt, Dissolved	9.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7440-48-4	
Copper, Dissolved	113 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7440-50-8	
Iron, Dissolved	10100 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:15	7439-89-6	
Lead, Dissolved	1480 ug/L		2.0	20	01/15/13 09:12	01/17/13 14:21	7439-92-1	
Magnesium, Dissolved	58300 ug/L		100	20	01/15/13 09:12	01/17/13 14:21	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-5_20130104	Lab ID: 60136463010	Collected: 01/04/13 12:49	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	5540 ug/L		10.0	20	01/15/13 09:12	01/17/13 14:21	7439-96-5	
Molybdenum, Dissolved	12.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7439-98-7	
Nickel, Dissolved	11.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7440-02-0	
Potassium, Dissolved	5100 ug/L		20.0	1	01/15/13 09:12	01/17/13 14:15	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7782-49-2	
Silver, Dissolved	4.4 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:15	7440-22-4	
Sodium, Dissolved	5630 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:15	7440-23-5	
Thallium, Dissolved	0.25 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:15	7440-28-0	
Vanadium, Dissolved	1.6 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:15	7440-62-2	
Zinc, Dissolved	6890 ug/L		100	20	01/15/13 09:12	01/17/13 14:21	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	15200 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:41	7429-90-5	M1
Antimony, Dissolved	1.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-36-0	
Arsenic, Dissolved	779 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-38-2	
Barium, Dissolved	9.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-39-3	
Beryllium, Dissolved	2.1 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:41	7440-41-7	
Cadmium, Dissolved	172 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:41	7440-43-9	
Chromium, Dissolved	12.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-47-3	
Cobalt, Dissolved	26.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-48-4	
Copper, Dissolved	560 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-50-8	
Iron, Dissolved	95400 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:41	7439-89-6	M1
Lead, Dissolved	4920 ug/L		100	100	01/09/13 16:00	01/22/13 14:35	7439-92-1	M6
Manganese, Dissolved	8650 ug/L		100	100	01/09/13 16:00	01/22/13 14:35	7439-96-5	M6
Molybdenum, Dissolved	5.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7439-98-7	
Nickel, Dissolved	50.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-02-0	
Selenium, Dissolved	4.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 13:41	7440-22-4	
Thallium, Dissolved	0.85J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-28-0	
Vanadium, Dissolved	25.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:41	7440-62-2	
Zinc, Dissolved	67000 ug/L		1000	100	01/09/13 16:00	01/22/13 14:35	7440-66-6	M6
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	0.84 ug/L		0.20	1	01/22/13 11:13	01/24/13 10:08	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:48	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:22	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2500 umhos/cm		10.0	1			01/14/13 11:42	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1600 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-5_20130104	Lab ID: 60136463010	Collected: 01/04/13 12:49	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.3	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	171	mg/L	20.0	1		01/09/13 09:52		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		01/09/13 09:52		
Alkalinity, Total as CaCO3	171	mg/L	20.0	1		01/09/13 09:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	2500	mg/L	5.0	1		01/09/13 09:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4160	mg/L	5.0	1		01/09/13 09:36		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	1.3	mg/L	0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.1	mg/L	1.0	1		01/10/13 21:45 16887-00-6		
Sulfate	1700	mg/L	100	100		01/10/13 22:03 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		01/15/13 14:25		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 11:36 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 13:43 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: EB-1_20130104	Lab ID: 60136463011	Collected: 01/04/13 13:00	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	488000 ug/L		500	5	01/09/13 16:00	01/17/13 12:34	7440-70-2	
Magnesium, Dissolved	33300 ug/L		250	5	01/09/13 16:00	01/17/13 12:34	7439-95-4	
Potassium, Dissolved	5680 ug/L		2500	5	01/09/13 16:00	01/17/13 12:34	7440-09-7	
Sodium, Dissolved	7660 ug/L		2500	5	01/09/13 16:00	01/17/13 12:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	356 ug/L		4.0	1	01/14/13 12:40	01/22/13 12:44	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7440-36-0	
Arsenic	6.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7440-38-2	
Barium	17.7 ug/L		0.30	1	01/14/13 12:40	01/22/13 12:44	7440-39-3	
Beryllium	0.25 ug/L		0.20	1	01/14/13 12:40	01/22/13 12:44	7440-41-7	
Cadmium	0.90 ug/L		0.080	1	01/14/13 12:40	01/22/13 12:44	7440-43-9	
Calcium	507000 ug/L		2000	100	01/14/13 12:40	01/19/13 13:18	7440-70-2	
Chromium	0.81 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7440-47-3	
Cobalt	6.8 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7440-48-4	
Copper	17.4 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7440-50-8	
Iron	5440 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:44	7439-89-6	
Lead	65.4 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:44	7439-92-1	
Magnesium	32600 ug/L		100	20	01/14/13 12:40	01/19/13 13:13	7439-95-4	
Manganese	4670 ug/L		10.0	20	01/14/13 12:40	01/19/13 13:13	7439-96-5	
Molybdenum	14.8 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7439-98-7	
Nickel	7.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7440-02-0	
Potassium	6220 ug/L		20.0	1	01/14/13 12:40	01/22/13 12:44	7440-09-7	
Selenium	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7782-49-2	
Silica	26000 ug/L		1070	20	01/14/13 12:40	01/19/13 13:13	7631-86-9	
Silver	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 12:44	7440-22-4	
Sodium	7560 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:44	7440-23-5	
Thallium	ND ug/L		0.10	1	01/14/13 12:40	01/22/13 12:44	7440-28-0	
Total Hardness by 2340B	1400000 ug/L		7100	100	01/14/13 12:40	01/19/13 13:18		
Vanadium	0.56 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:44	7440-62-2	
Zinc	1680 ug/L		100	20	01/14/13 12:40	01/19/13 13:13	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	13.0 ug/L		4.0	1	01/15/13 09:12	01/17/13 14:26	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7440-36-0	
Arsenic, Dissolved	1.2 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7440-38-2	
Barium, Dissolved	15.4 ug/L		0.30	1	01/15/13 09:12	01/17/13 14:26	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 14:26	7440-41-7	
Cadmium, Dissolved	0.27 ug/L		0.080	1	01/15/13 09:12	01/17/13 14:26	7440-43-9	
Calcium, Dissolved	535000 ug/L		1000	50	01/15/13 09:12	01/18/13 15:58	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7440-47-3	
Cobalt, Dissolved	6.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7440-48-4	
Copper, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7440-50-8	
Iron, Dissolved	1850 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:26	7439-89-6	
Lead, Dissolved	0.11 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:26	7439-92-1	
Magnesium, Dissolved	34200 ug/L		100	20	01/15/13 09:12	01/17/13 14:31	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: EB-1_20130104	Lab ID: 60136463011	Collected: 01/04/13 13:00	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	4910 ug/L		10.0	20	01/15/13 09:12	01/17/13 14:31	7439-96-5	
Molybdenum, Dissolved	14.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7439-98-7	
Nickel, Dissolved	6.7 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7440-02-0	
Potassium, Dissolved	6460 ug/L		20.0	1	01/15/13 09:12	01/17/13 14:26	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:26	7440-22-4	
Sodium, Dissolved	7150 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:26	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 14:26	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 14:26	7440-62-2	
Zinc, Dissolved	1530 ug/L		100	20	01/15/13 09:12	01/17/13 14:31	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	247 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:49	7429-90-5	
Antimony, Dissolved	0.11J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-36-0	
Arsenic, Dissolved	6.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-38-2	
Barium, Dissolved	15.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-39-3	
Beryllium, Dissolved	0.18J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:49	7440-41-7	
Cadmium, Dissolved	1.0 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:49	7440-43-9	
Chromium, Dissolved	1.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-47-3	
Cobalt, Dissolved	5.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-48-4	
Copper, Dissolved	17.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-50-8	
Iron, Dissolved	5620 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:49	7439-89-6	
Lead, Dissolved	92.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7439-92-1	
Manganese, Dissolved	4660 ug/L		100	100	01/09/13 16:00	01/22/13 14:43	7439-96-5	
Molybdenum, Dissolved	14.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7439-98-7	
Nickel, Dissolved	3.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7782-49-2	
Silver, Dissolved	0.12J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:49	7440-22-4	
Thallium, Dissolved	0.055J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-28-0	
Vanadium, Dissolved	0.29J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:49	7440-62-2	
Zinc, Dissolved	1480 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:49	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:11	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:50	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:29	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	2160 umhos/cm		10.0	1			01/14/13 11:44	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1380 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: EB-1_20130104	Lab ID: 60136463011	Collected: 01/04/13 13:00	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.1 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	185 mg/L		20.0	1		01/09/13 10:03		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		01/09/13 10:03		
Alkalinity, Total as CaCO3	185 mg/L		20.0	1		01/09/13 10:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	2010 mg/L		5.0	1		01/09/13 09:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	45.0 mg/L		5.0	1		01/09/13 09:36		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	0.057 mg/L		0.050	1		01/09/13 15:53 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.2 mg/L		1.0	1		01/10/13 22:21 16887-00-6		
Sulfate	1320 mg/L		100	100		01/10/13 22:38 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND mg/L		0.10	1		01/15/13 14:25		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.0070 mg/L		0.0050	1		01/09/13 11:37 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/09/13 13:57 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-4S_20130104	Lab ID: 60136463012	Collected: 01/04/13 13:06	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	256000 ug/L		500	5	01/09/13 16:00	01/17/13 12:36	7440-70-2	
Magnesium, Dissolved	28200 ug/L		250	5	01/09/13 16:00	01/17/13 12:36	7439-95-4	
Potassium, Dissolved	2840 ug/L		2500	5	01/09/13 16:00	01/17/13 12:36	7440-09-7	
Sodium, Dissolved	9280 ug/L		2500	5	01/09/13 16:00	01/17/13 12:36	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	13000 ug/L		4.0	1	01/14/13 12:40	01/22/13 12:49	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7440-36-0	
Arsenic	10.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7440-38-2	
Barium	148 ug/L		0.30	1	01/14/13 12:40	01/22/13 12:49	7440-39-3	
Beryllium	1.4 ug/L		0.20	1	01/14/13 12:40	01/22/13 12:49	7440-41-7	
Cadmium	3.0 ug/L		0.080	1	01/14/13 12:40	01/22/13 12:49	7440-43-9	
Calcium	264000 ug/L		400	20	01/14/13 12:40	01/19/13 15:13	7440-70-2	
Chromium	16.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7440-47-3	
Cobalt	8.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7440-48-4	
Copper	87.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7440-50-8	
Iron	16900 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:49	7439-89-6	
Lead	113 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:49	7439-92-1	
Magnesium	32600 ug/L		100	20	01/14/13 12:40	01/19/13 15:13	7439-95-4	
Manganese	600 ug/L		10.0	20	01/14/13 12:40	01/19/13 15:13	7439-96-5	
Molybdenum	2.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7439-98-7	
Nickel	12.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7440-02-0	
Potassium	5390 ug/L		20.0	1	01/14/13 12:40	01/22/13 12:49	7440-09-7	
Selenium	20.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7782-49-2	
Silica	60600 ug/L		1070	20	01/14/13 12:40	01/19/13 15:13	7631-86-9	
Silver	1.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:49	7440-22-4	
Sodium	10200 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:49	7440-23-5	
Thallium	0.27 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:49	7440-28-0	
Total Hardness by 2340B	794000 ug/L		1420	20	01/14/13 12:40	01/19/13 15:13		
Vanadium	17.6 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:49	7440-62-2	
Zinc	486 ug/L		100	20	01/14/13 12:40	01/19/13 15:13	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	37.7 ug/L		4.0	1	01/15/13 09:12	01/17/13 14:37	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7440-38-2	
Barium, Dissolved	28.9 ug/L		0.30	1	01/15/13 09:12	01/17/13 14:37	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 14:37	7440-41-7	
Cadmium, Dissolved	2.0 ug/L		0.080	1	01/15/13 09:12	01/17/13 14:37	7440-43-9	
Calcium, Dissolved	271000 ug/L		400	20	01/15/13 09:12	01/17/13 14:42	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7440-48-4	
Copper, Dissolved	1.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	01/15/13 09:12	01/17/13 14:37	7439-89-6	
Lead, Dissolved	0.32 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:37	7439-92-1	
Magnesium, Dissolved	28700 ug/L		100	20	01/15/13 09:12	01/17/13 14:42	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-4S_20130104	Lab ID: 60136463012	Collected: 01/04/13 13:06	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	130 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7439-96-5	
Molybdenum, Dissolved	1.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7439-98-7	
Nickel, Dissolved	1.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7440-02-0	
Potassium, Dissolved	3170 ug/L		20.0	1	01/15/13 09:12	01/17/13 14:37	7440-09-7	
Selenium, Dissolved	18.4 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:37	7440-22-4	
Sodium, Dissolved	8710 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:37	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 14:37	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 14:37	7440-62-2	
Zinc, Dissolved	168 ug/L		5.0	1	01/15/13 09:12	01/17/13 14:37	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	2940 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:53	7429-90-5	
Antimony, Dissolved	0.10J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-36-0	
Arsenic, Dissolved	3.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-38-2	
Barium, Dissolved	46.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-39-3	
Beryllium, Dissolved	0.69 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:53	7440-41-7	
Cadmium, Dissolved	2.6 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:53	7440-43-9	
Chromium, Dissolved	4.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-47-3	
Cobalt, Dissolved	3.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-48-4	
Copper, Dissolved	40.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-50-8	
Iron, Dissolved	3600 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:53	7439-89-6	
Lead, Dissolved	90.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7439-92-1	
Manganese, Dissolved	371 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7439-96-5	
Molybdenum, Dissolved	1.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7439-98-7	
Nickel, Dissolved	1.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-02-0	
Selenium, Dissolved	16.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 13:53	7440-22-4	
Thallium, Dissolved	0.078J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-28-0	
Vanadium, Dissolved	3.9 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:53	7440-62-2	
Zinc, Dissolved	296 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:53	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:13	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 15:53	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:31	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1290 umhos/cm		10.0	1			01/14/13 11:45	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	824 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-4S_20130104	Lab ID: 60136463012	Collected: 01/04/13 13:06	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.64 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	202 mg/L		20.0	1		01/09/13 10:07		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		01/09/13 10:07		
Alkalinity, Total as CaCO ₃	202 mg/L		20.0	1		01/09/13 10:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1080 mg/L		5.0	1		01/09/13 09:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	630 mg/L		5.0	1		01/09/13 09:36		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:54 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.4 mg/L		1.0	1		01/10/13 22:56 16887-00-6		
Sulfate	590 mg/L		50.0	50		01/10/13 23:14 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	0.64 mg/L		0.10	1		01/15/13 14:26		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 11:37 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/09/13 14:12 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-4D_20130104	Lab ID: 60136463013	Collected: 01/04/13 13:17	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	278000 ug/L		500	5	01/09/13 16:00	01/17/13 12:39	7440-70-2	
Magnesium, Dissolved	32200 ug/L		250	5	01/09/13 16:00	01/17/13 12:39	7439-95-4	
Potassium, Dissolved	3120 ug/L		2500	5	01/09/13 16:00	01/17/13 12:39	7440-09-7	
Sodium, Dissolved	8570 ug/L		2500	5	01/09/13 16:00	01/17/13 12:39	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	3110 ug/L		4.0	1	01/14/13 12:40	01/22/13 12:55	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7440-36-0	
Arsenic	6.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7440-38-2	
Barium	51.5 ug/L		0.30	1	01/14/13 12:40	01/22/13 12:55	7440-39-3	
Beryllium	0.37 ug/L		0.20	1	01/14/13 12:40	01/22/13 12:55	7440-41-7	
Cadmium	2.9 ug/L		0.080	1	01/14/13 12:40	01/22/13 12:55	7440-43-9	
Calcium	286000 ug/L		400	20	01/14/13 12:40	01/19/13 15:18	7440-70-2	
Chromium	3.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7440-47-3	
Cobalt	3.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7440-48-4	
Copper	33.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7440-50-8	
Iron	5610 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:55	7439-89-6	
Lead	26.0 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:55	7439-92-1	
Magnesium	33300 ug/L		100	20	01/14/13 12:40	01/19/13 15:18	7439-95-4	
Manganese	440 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7439-96-5	
Molybdenum	4.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7439-98-7	
Nickel	3.2 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7440-02-0	
Potassium	4150 ug/L		20.0	1	01/14/13 12:40	01/22/13 12:55	7440-09-7	
Selenium	35.6 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7782-49-2	
Silica	25300 ug/L		1070	20	01/14/13 12:40	01/19/13 15:18	7631-86-9	
Silver	0.66 ug/L		0.50	1	01/14/13 12:40	01/22/13 12:55	7440-22-4	
Sodium	9090 ug/L		50.0	1	01/14/13 12:40	01/22/13 12:55	7440-23-5	
Thallium	0.12 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:55	7440-28-0	
Total Hardness by 2340B	851000 ug/L		1420	20	01/14/13 12:40	01/19/13 15:18		
Vanadium	5.9 ug/L		0.10	1	01/14/13 12:40	01/22/13 12:55	7440-62-2	
Zinc	368 ug/L		5.0	1	01/14/13 12:40	01/22/13 12:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	2520 ug/L		4.0	1	01/15/13 09:12	01/17/13 14:47	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7440-36-0	
Arsenic, Dissolved	4.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7440-38-2	
Barium, Dissolved	43.8 ug/L		0.30	1	01/15/13 09:12	01/17/13 14:47	7440-39-3	
Beryllium, Dissolved	0.27 ug/L		0.20	1	01/15/13 09:12	01/17/13 14:47	7440-41-7	
Cadmium, Dissolved	2.6 ug/L		0.080	1	01/15/13 09:12	01/17/13 14:47	7440-43-9	
Calcium, Dissolved	289000 ug/L		400	20	01/15/13 09:12	01/17/13 14:53	7440-70-2	
Chromium, Dissolved	2.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7440-47-3	
Cobalt, Dissolved	2.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7440-48-4	
Copper, Dissolved	22.9 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7440-50-8	
Iron, Dissolved	4220 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:47	7439-89-6	
Lead, Dissolved	19.0 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:47	7439-92-1	
Magnesium, Dissolved	34000 ug/L		100	20	01/15/13 09:12	01/17/13 14:53	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-4D_20130104	Lab ID: 60136463013	Collected: 01/04/13 13:17	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	313 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7439-96-5	
Molybdenum, Dissolved	4.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7439-98-7	
Nickel, Dissolved	2.4 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7440-02-0	
Potassium, Dissolved	4010 ug/L		20.0	1	01/15/13 09:12	01/17/13 14:47	7440-09-7	
Selenium, Dissolved	37.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 14:47	7440-22-4	
Sodium, Dissolved	7800 ug/L		50.0	1	01/15/13 09:12	01/17/13 14:47	7440-23-5	
Thallium, Dissolved	0.10 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:47	7440-28-0	
Vanadium, Dissolved	4.6 ug/L		0.10	1	01/15/13 09:12	01/17/13 14:47	7440-62-2	
Zinc, Dissolved	354 ug/L		5.0	1	01/15/13 09:12	01/18/13 16:03	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	1060 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:57	7429-90-5	
Antimony, Dissolved	0.14J ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-36-0	
Arsenic, Dissolved	4.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-38-2	
Barium, Dissolved	27.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-39-3	
Beryllium, Dissolved	0.21J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:57	7440-41-7	
Cadmium, Dissolved	2.8 ug/L		0.50	1	01/09/13 16:00	01/22/13 13:57	7440-43-9	
Chromium, Dissolved	1.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-47-3	
Cobalt, Dissolved	1.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-48-4	
Copper, Dissolved	27.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-50-8	
Iron, Dissolved	2360 ug/L		50.0	1	01/09/13 16:00	01/22/13 13:57	7439-89-6	
Lead, Dissolved	22.7 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7439-92-1	
Manganese, Dissolved	203 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7439-96-5	
Molybdenum, Dissolved	1.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7439-98-7	
Nickel, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-02-0	
Selenium, Dissolved	32.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7782-49-2	
Silver, Dissolved	0.33J ug/L		0.50	1	01/09/13 16:00	01/22/13 13:57	7440-22-4	
Thallium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-28-0	
Vanadium, Dissolved	2.1 ug/L		1.0	1	01/09/13 16:00	01/22/13 13:57	7440-62-2	
Zinc, Dissolved	337 ug/L		10.0	1	01/09/13 16:00	01/22/13 13:57	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:16	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:00	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:33	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1310 umhos/cm		10.0	1			01/14/13 11:50	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	836 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-4D_20130104	Lab ID: 60136463013	Collected: 01/04/13 13:17	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.65	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	250	mg/L	20.0	1		01/09/13 10:21		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 10:21		
Alkalinity, Total as CaCO ₃	250	mg/L	20.0	1		01/09/13 10:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1120	mg/L	5.0	1		01/09/13 09:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	106	mg/L	5.0	1		01/09/13 09:36		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:54 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.1	mg/L	1.0	1		01/10/13 23:32 16887-00-6		
Sulfate	601	mg/L	50.0	50		01/10/13 23:49 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:27		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 12:51 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 14:26 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-1S_20130104	Lab ID: 60136463014	Collected: 01/04/13 13:30	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	233000 ug/L		500	5	01/09/13 16:00	01/17/13 12:41	7440-70-2	
Magnesium, Dissolved	22600 ug/L		250	5	01/09/13 16:00	01/17/13 12:41	7439-95-4	
Potassium, Dissolved	4230 ug/L		2500	5	01/09/13 16:00	01/17/13 12:41	7440-09-7	
Sodium, Dissolved	11300 ug/L		2500	5	01/09/13 16:00	01/17/13 12:41	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	20100 ug/L		4.0	1	01/14/13 12:40	01/22/13 13:00	7429-90-5	
Antimony	0.67 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7440-36-0	
Arsenic	26.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7440-38-2	
Barium	243 ug/L		0.30	1	01/14/13 12:40	01/22/13 13:00	7440-39-3	
Beryllium	2.2 ug/L		0.20	1	01/14/13 12:40	01/22/13 13:00	7440-41-7	
Cadmium	3.1 ug/L		0.080	1	01/14/13 12:40	01/22/13 13:00	7440-43-9	
Calcium	235000 ug/L		400	20	01/14/13 12:40	01/19/13 15:23	7440-70-2	
Chromium	24.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7440-47-3	
Cobalt	16.3 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7440-48-4	
Copper	132 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7440-50-8	
Iron	33100 ug/L		1000	20	01/14/13 12:40	01/19/13 15:23	7439-89-6	
Lead	294 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:00	7439-92-1	
Magnesium	30700 ug/L		100	20	01/14/13 12:40	01/19/13 15:23	7439-95-4	
Manganese	1770 ug/L		10.0	20	01/14/13 12:40	01/19/13 15:23	7439-96-5	
Molybdenum	8.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7439-98-7	
Nickel	20.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7440-02-0	
Potassium	7290 ug/L		20.0	1	01/14/13 12:40	01/22/13 13:00	7440-09-7	
Selenium	14.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7782-49-2	
Silica	82000 ug/L		1070	20	01/14/13 12:40	01/19/13 15:23	7631-86-9	
Silver	3.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:00	7440-22-4	
Sodium	12200 ug/L		50.0	1	01/14/13 12:40	01/22/13 13:00	7440-23-5	
Thallium	0.50 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:00	7440-28-0	
Total Hardness by 2340B	714000 ug/L		1420	20	01/14/13 12:40	01/19/13 15:23		
Vanadium	31.4 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:00	7440-62-2	
Zinc	619 ug/L		100	20	01/14/13 12:40	01/19/13 15:23	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	3220 ug/L		4.0	1	01/15/13 09:12	01/17/13 15:16	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7440-36-0	
Arsenic, Dissolved	3.9 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7440-38-2	
Barium, Dissolved	56.1 ug/L		0.30	1	01/15/13 09:12	01/17/13 15:16	7440-39-3	
Beryllium, Dissolved	0.23 ug/L		0.20	1	01/15/13 09:12	01/17/13 15:16	7440-41-7	
Cadmium, Dissolved	0.57 ug/L		0.080	1	01/15/13 09:12	01/17/13 15:16	7440-43-9	
Calcium, Dissolved	252000 ug/L		400	20	01/15/13 09:12	01/17/13 15:21	7440-70-2	
Chromium, Dissolved	3.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7440-47-3	
Cobalt, Dissolved	1.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7440-48-4	
Copper, Dissolved	12.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7440-50-8	
Iron, Dissolved	4320 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:16	7439-89-6	
Lead, Dissolved	28.4 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:16	7439-92-1	
Magnesium, Dissolved	21800 ug/L		5.0	1	01/15/13 09:12	01/17/13 15:16	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-1S_20130104	Lab ID: 60136463014	Collected: 01/04/13 13:30	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	141 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7439-96-5	
Molybdenum, Dissolved	8.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7439-98-7	
Nickel, Dissolved	2.3 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7440-02-0	
Potassium, Dissolved	5090 ug/L		20.0	1	01/15/13 09:12	01/17/13 15:16	7440-09-7	
Selenium, Dissolved	7.9 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:16	7440-22-4	
Sodium, Dissolved	10800 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:16	7440-23-5	
Thallium, Dissolved	0.14 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:16	7440-28-0	
Vanadium, Dissolved	4.7 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:16	7440-62-2	
Zinc, Dissolved	101 ug/L		5.0	1	01/15/13 09:12	01/17/13 15:16	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	5290 ug/L		50.0	1	01/09/13 16:00	01/22/13 14:02	7429-90-5	
Antimony, Dissolved	0.16J ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-36-0	
Arsenic, Dissolved	4.3 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-38-2	
Barium, Dissolved	48.0 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-39-3	
Beryllium, Dissolved	1.7 ug/L		0.50	1	01/09/13 16:00	01/22/13 14:02	7440-41-7	
Cadmium, Dissolved	4.2 ug/L		0.50	1	01/09/13 16:00	01/22/13 14:02	7440-43-9	
Chromium, Dissolved	4.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-47-3	
Cobalt, Dissolved	9.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-48-4	
Copper, Dissolved	85.6 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-50-8	
Iron, Dissolved	6000 ug/L		50.0	1	01/09/13 16:00	01/22/13 14:02	7439-89-6	
Lead, Dissolved	288 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7439-92-1	
Manganese, Dissolved	1210 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7439-96-5	
Molybdenum, Dissolved	2.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7439-98-7	
Nickel, Dissolved	5.4 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-02-0	
Selenium, Dissolved	7.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7782-49-2	
Silver, Dissolved	1.8 ug/L		0.50	1	01/09/13 16:00	01/22/13 14:02	7440-22-4	
Thallium, Dissolved	0.074J ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-28-0	
Vanadium, Dissolved	6.5 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:02	7440-62-2	
Zinc, Dissolved	515 ug/L		10.0	1	01/09/13 16:00	01/22/13 14:02	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:18	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:03	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:35	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1180 umhos/cm		10.0	1			01/14/13 11:52	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	756 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-1S_20130104	Lab ID: 60136463014	Collected: 01/04/13 13:30	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.59	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	90.9	mg/L	20.0	1		01/09/13 10:25		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 10:25		
Alkalinity, Total as CaCO ₃	90.9	mg/L	20.0	1		01/09/13 10:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	999	mg/L	5.0	1		01/09/13 09:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1860	mg/L	5.0	1		01/09/13 09:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:54 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		01/11/13 00:07 16887-00-6		
Sulfate	636	mg/L	50.0	50		01/11/13 00:25 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:30		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.0051	mg/L	0.0050	1		01/09/13 12:51 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 15:08 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-1D_20130104	Lab ID: 60136463015	Collected: 01/04/13 13:40	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	228000 ug/L		500	5	01/09/13 16:00	01/17/13 12:47	7440-70-2	
Magnesium, Dissolved	20600 ug/L		250	5	01/09/13 16:00	01/17/13 12:47	7439-95-4	
Potassium, Dissolved	11700 ug/L		2500	5	01/09/13 16:00	01/17/13 12:47	7440-09-7	
Sodium, Dissolved	11900 ug/L		2500	5	01/09/13 16:00	01/17/13 12:47	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	291 ug/L		4.0	1	01/23/13 12:34	01/23/13 16:56	7429-90-5	
Antimony	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7440-36-0	
Arsenic	0.82 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7440-38-2	
Barium	23.4 ug/L		0.30	1	01/23/13 12:34	01/23/13 16:56	7440-39-3	
Beryllium	ND ug/L		0.20	1	01/23/13 12:34	01/23/13 16:56	7440-41-7	
Cadmium	2.6 ug/L		0.080	1	01/23/13 12:34	01/23/13 16:56	7440-43-9	
Calcium	274000 ug/L		400	20	01/23/13 12:34	01/23/13 17:01	7440-70-2	
Chromium	1.8 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7440-47-3	
Cobalt	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7440-48-4	
Copper	9.9 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7440-50-8	
Iron	810 ug/L		50.0	1	01/23/13 12:34	01/23/13 16:56	7439-89-6	
Lead	13.4 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:56	7439-92-1	
Magnesium	21600 ug/L		5.0	1	01/23/13 12:34	01/23/13 16:56	7439-95-4	
Manganese	103 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7439-96-5	
Molybdenum	9.4 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7439-98-7	
Nickel	0.87 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7440-02-0	
Potassium	14300 ug/L		20.0	1	01/23/13 12:34	01/23/13 16:56	7440-09-7	
Selenium	9.8 ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7782-49-2	
Silica	12500 ug/L		1070	20	01/23/13 12:34	01/23/13 17:01	7631-86-9	
Silver	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 16:56	7440-22-4	
Sodium	13400 ug/L		50.0	1	01/23/13 12:34	01/23/13 16:56	7440-23-5	
Thallium	0.12 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:56	7440-28-0	
Total Hardness by 2340B	774000 ug/L		1420	20	01/23/13 12:34	01/23/13 17:01		
Vanadium	0.58 ug/L		0.10	1	01/23/13 12:34	01/23/13 16:56	7440-62-2	
Zinc	612 ug/L		100	20	01/23/13 12:34	01/23/13 17:01	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	101 ug/L		4.0	1	01/15/13 09:12	01/17/13 15:27	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7440-36-0	
Arsenic, Dissolved	0.54 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7440-38-2	
Barium, Dissolved	20.9 ug/L		0.30	1	01/15/13 09:12	01/17/13 15:27	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 15:27	7440-41-7	
Cadmium, Dissolved	2.2 ug/L		0.080	1	01/15/13 09:12	01/17/13 15:27	7440-43-9	
Calcium, Dissolved	247000 ug/L		400	20	01/15/13 09:12	01/17/13 15:32	7440-70-2	
Chromium, Dissolved	0.67 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7440-47-3	
Cobalt, Dissolved	0.91 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7440-48-4	
Copper, Dissolved	4.2 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7440-50-8	
Iron, Dissolved	244 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:27	7439-89-6	
Lead, Dissolved	4.2 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:27	7439-92-1	
Magnesium, Dissolved	20300 ug/L		5.0	1	01/15/13 09:12	01/17/13 15:27	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-1D_20130104	Lab ID: 60136463015	Collected: 01/04/13 13:40	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	29.4 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7439-96-5	
Molybdenum, Dissolved	8.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7439-98-7	
Nickel, Dissolved	2.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7440-02-0	
Potassium, Dissolved	13200 ug/L		20.0	1	01/15/13 09:12	01/17/13 15:27	7440-09-7	
Selenium, Dissolved	10.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:27	7440-22-4	
Sodium, Dissolved	11400 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:27	7440-23-5	
Thallium, Dissolved	0.12 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:27	7440-28-0	
Vanadium, Dissolved	0.20 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:27	7440-62-2	
Zinc, Dissolved	506 ug/L		100	20	01/15/13 09:12	01/17/13 15:32	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	85.2 ug/L		50.0	1	01/09/13 16:00	01/22/13 14:14	7429-90-5	
Antimony, Dissolved	0.11J ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-36-0	
Arsenic, Dissolved	1.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-38-2	
Barium, Dissolved	18.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 14:14	7440-41-7	
Cadmium, Dissolved	2.2 ug/L		0.50	1	01/09/13 16:00	01/22/13 14:14	7440-43-9	
Chromium, Dissolved	0.54J ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-47-3	
Cobalt, Dissolved	0.093J ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-48-4	
Copper, Dissolved	6.9 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-50-8	
Iron, Dissolved	309 ug/L		50.0	1	01/09/13 16:00	01/22/13 14:14	7439-89-6	
Lead, Dissolved	9.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7439-92-1	
Manganese, Dissolved	33.2 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7439-96-5	
Molybdenum, Dissolved	6.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7439-98-7	
Nickel, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-02-0	
Selenium, Dissolved	8.8 ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/22/13 14:14	7440-22-4	
Thallium, Dissolved	0.094J ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/22/13 14:14	7440-62-2	
Zinc, Dissolved	477 ug/L		10.0	1	01/09/13 16:00	01/22/13 14:14	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:21	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:05	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:44	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1180 umhos/cm		10.0	1			01/14/13 11:55	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	758 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-1D_20130104	Lab ID: 60136463015	Collected: 01/04/13 13:40	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.59 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	86.3 mg/L		20.0	1		01/09/13 10:29		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		01/09/13 10:29		
Alkalinity, Total as CaCO ₃	86.3 mg/L		20.0	1		01/09/13 10:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1010 mg/L		5.0	1		01/09/13 09:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	12.0 mg/L		5.0	1		01/09/13 09:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:54 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND mg/L		1.0	1		01/11/13 01:18 16887-00-6		
Sulfate	631 mg/L		50.0	50		01/11/13 01:35 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND mg/L		0.10	1		01/15/13 14:31		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.0053 mg/L		0.0050	1		01/09/13 12:54 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/09/13 15:23 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: P13-103_20130104	Lab ID: 60136463016	Collected: 01/04/13 13:49	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	283000 ug/L		100	1	01/09/13 16:00	01/17/13 09:58	7440-70-2	M1
Magnesium, Dissolved	32600 ug/L		50.0	1	01/09/13 16:00	01/17/13 14:43	7439-95-4	
Potassium, Dissolved	5610 ug/L		500	1	01/09/13 16:00	01/17/13 14:43	7440-09-7	
Sodium, Dissolved	13200 ug/L		500	1	01/09/13 16:00	01/17/13 09:58	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	4420 ug/L		4.0	1	01/14/13 12:40	01/22/13 13:26	7429-90-5	
Antimony	0.96 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7440-36-0	
Arsenic	145 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7440-38-2	
Barium	107 ug/L		0.30	1	01/14/13 12:40	01/22/13 13:26	7440-39-3	
Beryllium	0.40 ug/L		0.20	1	01/14/13 12:40	01/22/13 13:26	7440-41-7	
Cadmium	4.1 ug/L		0.080	1	01/14/13 12:40	01/22/13 13:26	7440-43-9	
Calcium	284000 ug/L		400	20	01/14/13 12:40	01/19/13 14:05	7440-70-2	
Chromium	8.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7440-47-3	
Cobalt	5.4 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7440-48-4	
Copper	237 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7440-50-8	
Iron	77200 ug/L		1000	20	01/14/13 12:40	01/19/13 14:05	7439-89-6	
Lead	943 ug/L		2.0	20	01/14/13 12:40	01/19/13 14:05	7439-92-1	
Magnesium	33100 ug/L		100	20	01/14/13 12:40	01/19/13 14:05	7439-95-4	
Manganese	2050 ug/L		10.0	20	01/14/13 12:40	01/19/13 14:05	7439-96-5	
Molybdenum	14.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7439-98-7	
Nickel	8.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7440-02-0	
Potassium	6210 ug/L		20.0	1	01/14/13 12:40	01/22/13 13:26	7440-09-7	
Selenium	2.4 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7782-49-2	
Silica	53900 ug/L		1070	20	01/14/13 12:40	01/19/13 14:05	7631-86-9	
Silver	8.6 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:26	7440-22-4	
Sodium	13700 ug/L		50.0	1	01/14/13 12:40	01/22/13 13:26	7440-23-5	
Thallium	0.31 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:26	7440-28-0	
Total Hardness by 2340B	846000 ug/L		1420	20	01/14/13 12:40	01/19/13 14:05		
Vanadium	6.8 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:26	7440-62-2	
Zinc	700 ug/L		100	20	01/14/13 12:40	01/19/13 14:05	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	14.1 ug/L		4.0	1	01/15/13 09:12	01/17/13 15:37	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7440-36-0	
Arsenic, Dissolved	34.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7440-38-2	
Barium, Dissolved	20.6 ug/L		0.30	1	01/15/13 09:12	01/17/13 15:37	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 15:37	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	01/15/13 09:12	01/17/13 15:37	7440-43-9	
Calcium, Dissolved	293000 ug/L		400	20	01/15/13 09:12	01/17/13 15:43	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7440-47-3	
Cobalt, Dissolved	0.56 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7440-48-4	
Copper, Dissolved	0.80 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7440-50-8	
Iron, Dissolved	18200 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:37	7439-89-6	
Lead, Dissolved	2.0 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:37	7439-92-1	
Magnesium, Dissolved	33000 ug/L		100	20	01/15/13 09:12	01/17/13 15:43	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: P13-103_20130104	Lab ID: 60136463016	Collected: 01/04/13 13:49	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1950 ug/L		10.0	20	01/15/13 09:12	01/17/13 15:43	7439-96-5	
Molybdenum, Dissolved	11.9 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7439-98-7	
Nickel, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7440-02-0	
Potassium, Dissolved	5050 ug/L		20.0	1	01/15/13 09:12	01/17/13 15:37	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:37	7440-22-4	
Sodium, Dissolved	12100 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:37	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 15:37	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 15:37	7440-62-2	
Zinc, Dissolved	52.3 ug/L		5.0	1	01/15/13 09:12	01/17/13 15:37	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	617 ug/L		50.0	1	01/09/13 16:00	01/23/13 09:28	7429-90-5	
Antimony, Dissolved	0.17J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-36-0	
Arsenic, Dissolved	91.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-38-2	
Barium, Dissolved	24.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-39-3	
Beryllium, Dissolved	0.22J ug/L		0.50	1	01/09/13 16:00	01/23/13 09:28	7440-41-7	
Cadmium, Dissolved	1.6 ug/L		0.50	1	01/09/13 16:00	01/23/13 09:28	7440-43-9	
Chromium, Dissolved	2.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-47-3	
Cobalt, Dissolved	1.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-48-4	
Copper, Dissolved	62.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-50-8	
Iron, Dissolved	30500 ug/L		50.0	1	01/09/13 16:00	01/23/13 09:28	7439-89-6	M1
Lead, Dissolved	539 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7439-92-1	
Manganese, Dissolved	1980 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7439-96-5	M1
Molybdenum, Dissolved	11.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7439-98-7	
Nickel, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-02-0	
Selenium, Dissolved	0.46J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7782-49-2	
Silver, Dissolved	0.16J ug/L		0.50	1	01/09/13 16:00	01/23/13 09:28	7440-22-4	
Thallium, Dissolved	0.074J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-28-0	
Vanadium, Dissolved	1.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:28	7440-62-2	
Zinc, Dissolved	251 ug/L		10.0	1	01/09/13 16:00	01/23/13 09:28	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:28	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:07	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:47	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1420 umhos/cm		10.0	1			01/14/13 11:56	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	909 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: P13-103_20130104	Lab ID: 60136463016	Collected: 01/04/13 13:49	Received: 01/08/13 08:30	Matrix: Water						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
Salinity	Analytical Method: Calculated									
Salinity (as seawater)	0.71	PSU	0.010	1		01/15/13 14:00				
2320B Alkalinity	Analytical Method: SM 2320B									
Alkalinity,Bicarbonate (CaCO ₃)	52.3	mg/L	20.0	1		01/09/13 10:34				
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 10:34				
Alkalinity, Total as CaCO ₃	52.3	mg/L	20.0	1		01/09/13 10:34				
2540C Total Dissolved Solids	Analytical Method: SM 2540C									
Total Dissolved Solids	1300	mg/L	5.0	1		01/09/13 09:54				
2540D Total Suspended Solids	Analytical Method: SM 2540D									
Total Suspended Solids	1030	mg/L	5.0	1		01/09/13 09:37				
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D									
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:54	18496-25-8	M1		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0									
Chloride	1.4	mg/L	1.0	1		01/11/13 01:53	16887-00-6			
Sulfate	879	mg/L	50.0	50		01/11/13 02:11	14808-79-8			
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2									
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:38				
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E									
Cyanide	ND	mg/L	0.0050	1		01/09/13 12:54	57-12-5			
5310C TOC	Analytical Method: SM 5310C									
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 15:37	7440-44-0			

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-3_20130104	Lab ID: 60136463017	Collected: 01/04/13 14:08	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	244000 ug/L		100	1	01/09/13 16:00	01/17/13 10:03	7440-70-2	
Magnesium, Dissolved	20100 ug/L		50.0	1	01/09/13 16:00	01/17/13 14:48	7439-95-4	
Potassium, Dissolved	21100 ug/L		500	1	01/09/13 16:00	01/17/13 14:48	7440-09-7	
Sodium, Dissolved	12000 ug/L		500	1	01/09/13 16:00	01/17/13 10:03	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	815 ug/L		4.0	1	01/14/13 12:40	01/22/13 13:32	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7440-36-0	
Arsenic	1.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7440-38-2	
Barium	20.0 ug/L		0.30	1	01/14/13 12:40	01/22/13 13:32	7440-39-3	
Beryllium	0.92 ug/L		0.20	1	01/14/13 12:40	01/22/13 13:32	7440-41-7	
Cadmium	14.0 ug/L		0.080	1	01/14/13 12:40	01/22/13 13:32	7440-43-9	
Calcium	239000 ug/L		400	20	01/14/13 12:40	01/19/13 14:15	7440-70-2	
Chromium	0.60 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7440-47-3	
Cobalt	2.6 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7440-48-4	
Copper	166 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7440-50-8	
Iron	9310 ug/L		50.0	1	01/14/13 12:40	01/22/13 13:32	7439-89-6	
Lead	17.6 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:32	7439-92-1	
Magnesium	18800 ug/L		5.0	1	01/14/13 12:40	01/22/13 13:32	7439-95-4	
Manganese	1690 ug/L		10.0	20	01/14/13 12:40	01/19/13 14:15	7439-96-5	
Molybdenum	21.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7439-98-7	
Nickel	4.0 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7440-02-0	
Potassium	19300 ug/L		20.0	1	01/14/13 12:40	01/22/13 13:32	7440-09-7	
Selenium	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7782-49-2	
Silica	19200 ug/L		1070	20	01/14/13 12:40	01/19/13 14:15	7631-86-9	
Silver	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 13:32	7440-22-4	
Sodium	12400 ug/L		50.0	1	01/14/13 12:40	01/22/13 13:32	7440-23-5	
Thallium	ND ug/L		0.10	1	01/14/13 12:40	01/22/13 13:32	7440-28-0	
Total Hardness by 2340B	675000 ug/L		1420	20	01/14/13 12:40	01/19/13 14:15		
Vanadium	0.20 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:32	7440-62-2	
Zinc	3110 ug/L		100	20	01/14/13 12:40	01/19/13 14:15	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	27.0 ug/L		4.0	1	01/15/13 09:12	01/17/13 15:48	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7440-38-2	
Barium, Dissolved	20.7 ug/L		0.30	1	01/15/13 09:12	01/17/13 15:48	7440-39-3	
Beryllium, Dissolved	0.29 ug/L		0.20	1	01/15/13 09:12	01/17/13 15:48	7440-41-7	
Cadmium, Dissolved	13.0 ug/L		0.080	1	01/15/13 09:12	01/17/13 15:48	7440-43-9	
Calcium, Dissolved	249000 ug/L		400	20	01/15/13 09:12	01/17/13 15:53	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7440-47-3	
Cobalt, Dissolved	2.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7440-48-4	
Copper, Dissolved	8.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7440-50-8	
Iron, Dissolved	456 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:48	7439-89-6	
Lead, Dissolved	0.35 ug/L		0.10	1	01/15/13 09:12	01/17/13 15:48	7439-92-1	
Magnesium, Dissolved	18700 ug/L		5.0	1	01/15/13 09:12	01/17/13 15:48	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-3_20130104	Lab ID: 60136463017	Collected: 01/04/13 14:08	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1740 ug/L		10.0	20	01/15/13 09:12	01/17/13 15:53	7439-96-5	
Molybdenum, Dissolved	18.9 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7439-98-7	
Nickel, Dissolved	4.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7440-02-0	
Potassium, Dissolved	20100 ug/L		20.0	1	01/15/13 09:12	01/17/13 15:48	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:48	7440-22-4	
Sodium, Dissolved	11000 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:48	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 15:48	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 15:48	7440-62-2	
Zinc, Dissolved	2720 ug/L		100	20	01/15/13 09:12	01/17/13 15:53	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	711 ug/L		50.0	1	01/09/13 16:00	01/23/13 09:45	7429-90-5	
Antimony, Dissolved	0.30J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-36-0	
Arsenic, Dissolved	1.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-38-2	
Barium, Dissolved	19.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-39-3	
Beryllium, Dissolved	0.84 ug/L		0.50	1	01/09/13 16:00	01/23/13 09:45	7440-41-7	
Cadmium, Dissolved	14.3 ug/L		0.50	1	01/09/13 16:00	01/23/13 09:45	7440-43-9	
Chromium, Dissolved	0.65J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-47-3	
Cobalt, Dissolved	2.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-48-4	
Copper, Dissolved	135 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-50-8	
Iron, Dissolved	8160 ug/L		50.0	1	01/09/13 16:00	01/23/13 09:45	7439-89-6	
Lead, Dissolved	15.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7439-92-1	
Manganese, Dissolved	1670 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7439-96-5	
Molybdenum, Dissolved	21.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7439-98-7	
Nickel, Dissolved	2.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7782-49-2	
Silver, Dissolved	0.15J ug/L		0.50	1	01/09/13 16:00	01/23/13 09:45	7440-22-4	
Thallium, Dissolved	0.13J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:45	7440-62-2	
Zinc, Dissolved	2690 ug/L		10.0	1	01/09/13 16:00	01/23/13 09:45	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:30	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:15	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:49	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1220 umhos/cm		10.0	1			01/14/13 11:58	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	782 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-3_20130104	Lab ID: 60136463017	Collected: 01/04/13 14:08	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.61 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	102 mg/L		20.0	1		01/09/13 10:38		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		01/09/13 10:38		
Alkalinity, Total as CaCO3	102 mg/L		20.0	1		01/09/13 10:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1050 mg/L		5.0	1		01/09/13 09:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	29.0 mg/L		5.0	1		01/09/13 09:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:55 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND mg/L		1.0	1		01/11/13 15:19 16887-00-6		
Sulfate	635 mg/L		50.0	50		01/11/13 15:36 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND mg/L		0.10	1		01/15/13 14:32		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 12:55 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/09/13 15:51 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: FB_20130104	Lab ID: 60136463018	Collected: 01/04/13 14:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	229	ug/L	100	1	01/09/13 16:00	01/17/13 10:05	7440-70-2	
Magnesium, Dissolved	26.1J	ug/L	50.0	1	01/09/13 16:00	01/17/13 14:50	7439-95-4	
Potassium, Dissolved	146J	ug/L	500	1	01/09/13 16:00	01/17/13 14:50	7440-09-7	
Sodium, Dissolved	291J	ug/L	500	1	01/09/13 16:00	01/17/13 10:05	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	ND	ug/L	4.0	1	01/23/13 12:34	01/23/13 17:21	7429-90-5	
Antimony	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7440-36-0	
Arsenic	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7440-38-2	
Barium	0.91	ug/L	0.30	1	01/23/13 12:34	01/23/13 17:21	7440-39-3	
Beryllium	ND	ug/L	0.20	1	01/23/13 12:34	01/23/13 17:21	7440-41-7	
Cadmium	ND	ug/L	0.080	1	01/23/13 12:34	01/23/13 17:21	7440-43-9	
Calcium	80.1	ug/L	20.0	1	01/23/13 12:34	01/23/13 17:21	7440-70-2	
Chromium	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7440-47-3	
Cobalt	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7440-48-4	
Copper	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7440-50-8	
Iron	ND	ug/L	50.0	1	01/23/13 12:34	01/23/13 17:21	7439-89-6	
Lead	ND	ug/L	0.10	1	01/23/13 12:34	01/23/13 17:21	7439-92-1	
Magnesium	15.3	ug/L	5.0	1	01/23/13 12:34	01/23/13 17:21	7439-95-4	
Manganese	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7439-96-5	
Molybdenum	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7439-98-7	
Nickel	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7440-02-0	
Potassium	92.0	ug/L	20.0	1	01/23/13 12:34	01/23/13 17:21	7440-09-7	
Selenium	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7782-49-2	
Silica	70.7	ug/L	53.5	1	01/23/13 12:34	01/23/13 17:21	7631-86-9	
Silver	ND	ug/L	0.50	1	01/23/13 12:34	01/23/13 17:21	7440-22-4	
Sodium	212	ug/L	50.0	1	01/23/13 12:34	01/23/13 17:21	7440-23-5	
Thallium	ND	ug/L	0.10	1	01/23/13 12:34	01/23/13 17:21	7440-28-0	
Total Hardness by 2340B	263	ug/L	71.0	1	01/23/13 12:34	01/23/13 17:21		
Vanadium	ND	ug/L	0.10	1	01/23/13 12:34	01/23/13 17:21	7440-62-2	
Zinc	ND	ug/L	5.0	1	01/23/13 12:34	01/23/13 17:21	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	01/15/13 09:12	01/17/13 15:59	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	01/15/13 09:12	01/17/13 15:59	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	01/15/13 09:12	01/17/13 15:59	7440-38-2	
Barium, Dissolved	ND	ug/L	0.30	1	01/15/13 09:12	01/17/13 15:59	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	01/15/13 09:12	01/17/13 15:59	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	01/15/13 09:12	01/17/13 15:59	7440-43-9	
Calcium, Dissolved	87.0	ug/L	20.0	1	01/15/13 09:12	01/17/13 15:59	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	01/15/13 09:12	01/17/13 15:59	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	01/15/13 09:12	01/17/13 15:59	7440-48-4	
Copper, Dissolved	0.67	ug/L	0.50	1	01/15/13 09:12	01/17/13 15:59	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	01/15/13 09:12	01/17/13 15:59	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	01/15/13 09:12	01/17/13 15:59	7439-92-1	
Magnesium, Dissolved	14.2	ug/L	5.0	1	01/15/13 09:12	01/17/13 15:59	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: FB_20130104	Lab ID: 60136463018	Collected: 01/04/13 14:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:59	7439-96-5	
Molybdenum, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:59	7439-98-7	
Nickel, Dissolved	1.5 ug/L		0.50	1	01/15/13 09:12	01/17/13 15:59	7440-02-0	
Potassium, Dissolved	88.4 ug/L		20.0	1	01/15/13 09:12	01/17/13 15:59	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:59	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 15:59	7440-22-4	
Sodium, Dissolved	224 ug/L		50.0	1	01/15/13 09:12	01/17/13 15:59	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 15:59	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 15:59	7440-62-2	
Zinc, Dissolved	5.9 ug/L		5.0	1	01/15/13 09:12	01/17/13 15:59	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND ug/L		50.0	1	01/09/13 16:00	01/23/13 09:24	7429-90-5	
Antimony, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-36-0	
Arsenic, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-38-2	
Barium, Dissolved	0.88J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-39-3	B
Beryllium, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 09:24	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 09:24	7440-43-9	
Chromium, Dissolved	0.36J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-47-3	
Cobalt, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-48-4	
Copper, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-50-8	
Iron, Dissolved	9.2J ug/L		50.0	1	01/09/13 16:00	01/23/13 09:24	7439-89-6	
Lead, Dissolved	0.45J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7439-92-1	
Manganese, Dissolved	0.73J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7439-96-5	
Molybdenum, Dissolved	0.69J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7439-98-7	
Nickel, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7782-49-2	
Silver, Dissolved	0.15J ug/L		0.50	1	01/09/13 16:00	01/23/13 09:24	7440-22-4	
Thallium, Dissolved	0.073J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:24	7440-62-2	
Zinc, Dissolved	7.0J ug/L		10.0	1	01/09/13 16:00	01/23/13 09:24	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:33	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:17	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:51	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	ND umhos/cm		10.0	1			01/14/13 12:00	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	ND mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: FB_20130104	Lab ID: 60136463018	Collected: 01/04/13 14:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.012 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	ND mg/L		20.0	1		01/09/13 10:50		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		01/09/13 10:50		
Alkalinity, Total as CaCO ₃	ND mg/L		20.0	1		01/09/13 10:50		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	11.0 mg/L		5.0	1		01/09/13 09:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND mg/L		5.0	1		01/09/13 09:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:55 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND mg/L		1.0	1		01/12/13 03:07 16887-00-6		
Sulfate	ND mg/L		1.0	1		01/12/13 03:07 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND mg/L		0.10	1		01/15/13 14:32		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 12:55 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/09/13 16:05 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: P13-102_20130104	Lab ID: 60136463019	Collected: 01/04/13 14:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	337000 ug/L		100	1	01/09/13 16:00	01/17/13 10:07	7440-70-2	
Magnesium, Dissolved	44900 ug/L		50.0	1	01/09/13 16:00	01/17/13 14:52	7439-95-4	
Potassium, Dissolved	6940 ug/L		500	1	01/09/13 16:00	01/17/13 14:52	7440-09-7	
Sodium, Dissolved	52000 ug/L		500	1	01/09/13 16:00	01/17/13 10:07	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	26.7 ug/L		4.0	1	01/23/13 12:34	01/23/13 17:25	7429-90-5	
Antimony	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7440-36-0	
Arsenic	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7440-38-2	
Barium	23.9 ug/L		0.30	1	01/23/13 12:34	01/23/13 17:25	7440-39-3	
Beryllium	ND ug/L		0.20	1	01/23/13 12:34	01/23/13 17:25	7440-41-7	
Cadmium	ND ug/L		0.080	1	01/23/13 12:34	01/23/13 17:25	7440-43-9	
Calcium	378000 ug/L		400	20	01/23/13 12:34	01/23/13 17:30	7440-70-2	
Chromium	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7440-47-3	
Cobalt	12.1 ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7440-48-4	
Copper	0.66 ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7440-50-8	
Iron	59.8 ug/L		50.0	1	01/23/13 12:34	01/23/13 17:25	7439-89-6	
Lead	0.64 ug/L		0.10	1	01/23/13 12:34	01/23/13 17:25	7439-92-1	
Magnesium	48900 ug/L		100	20	01/23/13 12:34	01/23/13 17:30	7439-95-4	
Manganese	12700 ug/L		25.0	50	01/23/13 12:34	01/24/13 13:21	7439-96-5	
Molybdenum	10.8 ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7439-98-7	
Nickel	4.5 ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7440-02-0	
Potassium	7170 ug/L		20.0	1	01/23/13 12:34	01/23/13 17:25	7440-09-7	
Selenium	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7782-49-2	
Silica	19300 ug/L		1070	20	01/23/13 12:34	01/23/13 17:30	7631-86-9	
Silver	ND ug/L		0.50	1	01/23/13 12:34	01/23/13 17:25	7440-22-4	
Sodium	52600 ug/L		1000	20	01/23/13 12:34	01/23/13 17:30	7440-23-5	
Thallium	ND ug/L		0.10	1	01/23/13 12:34	01/23/13 17:25	7440-28-0	
Total Hardness by 2340B	1140000 ug/L		1420	20	01/23/13 12:34	01/23/13 17:30		
Vanadium	ND ug/L		0.10	1	01/23/13 12:34	01/23/13 17:25	7440-62-2	
Zinc	46.8 ug/L		5.0	1	01/23/13 12:34	01/23/13 17:25	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	10.4 ug/L		4.0	1	01/15/13 09:12	01/17/13 16:27	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7440-38-2	
Barium, Dissolved	23.6 ug/L		0.30	1	01/15/13 09:12	01/17/13 16:27	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/15/13 09:12	01/17/13 16:27	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	01/15/13 09:12	01/17/13 16:27	7440-43-9	
Calcium, Dissolved	342000 ug/L		400	20	01/15/13 09:12	01/17/13 16:32	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7440-47-3	
Cobalt, Dissolved	11.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7440-48-4	
Copper, Dissolved	0.66 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	01/15/13 09:12	01/17/13 16:27	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 16:27	7439-92-1	
Magnesium, Dissolved	48000 ug/L		100	20	01/15/13 09:12	01/17/13 16:32	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: P13-102_20130104	Lab ID: 60136463019	Collected: 01/04/13 14:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	18000 ug/L		25.0	50	01/15/13 09:12	01/18/13 16:14	7439-96-5	
Molybdenum, Dissolved	10.4 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7439-98-7	
Nickel, Dissolved	5.0 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7440-02-0	
Potassium, Dissolved	6790 ug/L		20.0	1	01/15/13 09:12	01/17/13 16:27	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:27	7440-22-4	
Sodium, Dissolved	49000 ug/L		1000	20	01/15/13 09:12	01/17/13 16:32	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 16:27	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 16:27	7440-62-2	
Zinc, Dissolved	39.6 ug/L		5.0	1	01/15/13 09:12	01/17/13 16:27	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	15.4J ug/L		50.0	1	01/09/13 16:00	01/23/13 09:49	7429-90-5	
Antimony, Dissolved	0.081J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-36-0	
Arsenic, Dissolved	0.28J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-38-2	
Barium, Dissolved	21.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-39-3	
Beryllium, Dissolved	0.11J ug/L		0.50	1	01/09/13 16:00	01/23/13 09:49	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 09:49	7440-43-9	
Chromium, Dissolved	0.29J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-47-3	
Cobalt, Dissolved	10.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-48-4	
Copper, Dissolved	0.60J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-50-8	
Iron, Dissolved	45.0J ug/L		50.0	1	01/09/13 16:00	01/23/13 09:49	7439-89-6	
Lead, Dissolved	0.60J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7439-92-1	
Manganese, Dissolved	16400 ug/L		200	200	01/09/13 16:00	01/23/13 11:08	7439-96-5	
Molybdenum, Dissolved	10.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7439-98-7	
Nickel, Dissolved	1.8 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 09:49	7440-22-4	
Thallium, Dissolved	0.085J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:49	7440-62-2	
Zinc, Dissolved	41.4 ug/L		10.0	1	01/09/13 16:00	01/23/13 09:49	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:35	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:20	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:53	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1740 umhos/cm		10.0	1			01/14/13 12:03	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1110 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: P13-102_20130104	Lab ID: 60136463019	Collected: 01/04/13 14:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.88	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	146	mg/L	20.0	1		01/09/13 10:57		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 10:57		
Alkalinity, Total as CaCO ₃	146	mg/L	20.0	1		01/09/13 10:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1570	mg/L	5.0	1		01/09/13 09:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		01/09/13 09:38		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:55 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	6.0	mg/L	1.0	1		01/11/13 17:05 16887-00-6		
Sulfate	1040	mg/L	100	100		01/11/13 17:23 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:33		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.0092	mg/L	0.0050	1		01/09/13 12:59 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/09/13 16:19 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-4_20130104	Lab ID: 60136463020	Collected: 01/04/13 14:55	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	231000 ug/L		100	1	01/09/13 16:00	01/17/13 10:09	7440-70-2	
Magnesium, Dissolved	19100 ug/L		50.0	1	01/09/13 16:00	01/17/13 14:54	7439-95-4	
Potassium, Dissolved	20800 ug/L		500	1	01/09/13 16:00	01/17/13 14:54	7440-09-7	
Sodium, Dissolved	11500 ug/L		500	1	01/09/13 16:00	01/17/13 10:09	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	293 ug/L		4.0	1	01/14/13 12:40	01/22/13 13:46	7429-90-5	
Antimony	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7440-36-0	
Arsenic	0.72 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7440-38-2	
Barium	20.2 ug/L		0.30	1	01/14/13 12:40	01/22/13 13:46	7440-39-3	
Beryllium	0.45 ug/L		0.20	1	01/14/13 12:40	01/22/13 13:46	7440-41-7	
Cadmium	11.7 ug/L		0.080	1	01/14/13 12:40	01/22/13 13:46	7440-43-9	
Calcium	241000 ug/L		400	20	01/14/13 12:40	01/19/13 14:33	7440-70-2	
Chromium	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7440-47-3	
Cobalt	2.5 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7440-48-4	
Copper	60.7 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7440-50-8	
Iron	3410 ug/L		50.0	1	01/14/13 12:40	01/22/13 13:46	7439-89-6	
Lead	6.3 ug/L		0.10	1	01/14/13 12:40	01/22/13 13:46	7439-92-1	
Magnesium	19400 ug/L		5.0	1	01/14/13 12:40	01/22/13 13:46	7439-95-4	
Manganese	1680 ug/L		10.0	20	01/14/13 12:40	01/19/13 14:33	7439-96-5	
Molybdenum	20.1 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7439-98-7	
Nickel	3.9 ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7440-02-0	
Potassium	20700 ug/L		20.0	1	01/14/13 12:40	01/22/13 13:46	7440-09-7	
Selenium	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7782-49-2	
Silica	17100 ug/L		1070	20	01/14/13 12:40	01/19/13 14:33	7631-86-9	
Silver	ND ug/L		0.50	1	01/14/13 12:40	01/22/13 13:46	7440-22-4	
Sodium	12900 ug/L		50.0	1	01/14/13 12:40	01/22/13 13:46	7440-23-5	
Thallium	ND ug/L		0.10	1	01/14/13 12:40	01/22/13 13:46	7440-28-0	
Total Hardness by 2340B	682000 ug/L		1420	20	01/14/13 12:40	01/19/13 14:33		
Vanadium	ND ug/L		0.10	1	01/14/13 12:40	01/22/13 13:46	7440-62-2	
Zinc	2540 ug/L		100	20	01/14/13 12:40	01/19/13 14:33	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	156 ug/L		4.0	1	01/15/13 09:12	01/17/13 16:38	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7440-36-0	
Arsenic, Dissolved	0.53 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7440-38-2	
Barium, Dissolved	20.2 ug/L		0.30	1	01/15/13 09:12	01/17/13 16:38	7440-39-3	
Beryllium, Dissolved	0.23 ug/L		0.20	1	01/15/13 09:12	01/17/13 16:38	7440-41-7	
Cadmium, Dissolved	11.3 ug/L		0.080	1	01/15/13 09:12	01/17/13 16:38	7440-43-9	
Calcium, Dissolved	246000 ug/L		400	20	01/15/13 09:12	01/17/13 16:49	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7440-47-3	
Cobalt, Dissolved	2.6 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7440-48-4	
Copper, Dissolved	29.3 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7440-50-8	
Iron, Dissolved	1680 ug/L		50.0	1	01/15/13 09:12	01/17/13 16:38	7439-89-6	
Lead, Dissolved	3.2 ug/L		0.10	1	01/15/13 09:12	01/17/13 16:38	7439-92-1	
Magnesium, Dissolved	19000 ug/L		5.0	1	01/15/13 09:12	01/17/13 16:38	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-4_20130104	Lab ID: 60136463020	Collected: 01/04/13 14:55	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1690 ug/L		10.0	20	01/15/13 09:12	01/17/13 16:49	7439-96-5	
Molybdenum, Dissolved	20.1 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7439-98-7	
Nickel, Dissolved	3.8 ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7440-02-0	
Potassium, Dissolved	21100 ug/L		20.0	1	01/15/13 09:12	01/17/13 16:38	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/15/13 09:12	01/17/13 16:38	7440-22-4	
Sodium, Dissolved	11100 ug/L		50.0	1	01/15/13 09:12	01/17/13 16:38	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 16:38	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/15/13 09:12	01/17/13 16:38	7440-62-2	
Zinc, Dissolved	2320 ug/L		100	20	01/15/13 09:12	01/17/13 16:49	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	313 ug/L		50.0	1	01/09/13 16:00	01/23/13 09:53	7429-90-5	
Antimony, Dissolved	0.24J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-36-0	
Arsenic, Dissolved	0.74J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-38-2	
Barium, Dissolved	19.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-39-3	
Beryllium, Dissolved	0.38J ug/L		0.50	1	01/09/13 16:00	01/23/13 09:53	7440-41-7	
Cadmium, Dissolved	12.3 ug/L		0.50	1	01/09/13 16:00	01/23/13 09:53	7440-43-9	
Chromium, Dissolved	0.71J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-47-3	
Cobalt, Dissolved	2.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-48-4	
Copper, Dissolved	58.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-50-8	
Iron, Dissolved	3480 ug/L		50.0	1	01/09/13 16:00	01/23/13 09:53	7439-89-6	
Lead, Dissolved	7.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7439-92-1	
Manganese, Dissolved	1760 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7439-96-5	
Molybdenum, Dissolved	21.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7439-98-7	
Nickel, Dissolved	2.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 09:53	7440-22-4	
Thallium, Dissolved	0.074J ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 09:53	7440-62-2	
Zinc, Dissolved	2370 ug/L		10.0	1	01/09/13 16:00	01/23/13 09:53	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:13	01/24/13 10:38	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:17	01/23/13 16:22	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 14:56	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1180 umhos/cm		10.0	1			01/14/13 12:06	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	758 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-4_20130104	Lab ID: 60136463020	Collected: 01/04/13 14:55	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.59 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	103 mg/L		20.0	1		01/09/13 11:11		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		01/09/13 11:11		
Alkalinity, Total as CaCO3	103 mg/L		20.0	1		01/09/13 11:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1060 mg/L		5.0	1		01/09/13 09:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	6.0 mg/L		5.0	1		01/09/13 09:38		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:55 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND mg/L		1.0	1		01/11/13 17:40 16887-00-6		
Sulfate	651 mg/L		50.0	50		01/11/13 17:58 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND mg/L		0.10	1		01/15/13 14:34		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 13:04 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/09/13 16:34 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-8_20130104	Lab ID: 60136463021	Collected: 01/04/13 15:07	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	238000 ug/L		100	1	01/09/13 16:00	01/17/13 10:11	7440-70-2	
Magnesium, Dissolved	19000 ug/L		50.0	1	01/09/13 16:00	01/17/13 14:56	7439-95-4	
Potassium, Dissolved	20000 ug/L		500	1	01/09/13 16:00	01/17/13 14:56	7440-09-7	
Sodium, Dissolved	11600 ug/L		500	1	01/09/13 16:00	01/17/13 10:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	731 ug/L		4.0	1	01/15/13 09:06	01/18/13 22:27	7429-90-5	
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7440-36-0	
Arsenic	1.7 ug/L		0.50	1	01/15/13 09:06	01/23/13 14:11	7440-38-2	
Barium	20.8 ug/L		0.30	1	01/15/13 09:06	01/18/13 22:27	7440-39-3	
Beryllium	0.88 ug/L		0.20	1	01/15/13 09:06	01/18/13 22:27	7440-41-7	
Cadmium	14.6 ug/L		0.080	1	01/15/13 09:06	01/18/13 22:27	7440-43-9	
Calcium	247000 ug/L		400	20	01/15/13 09:06	01/18/13 22:32	7440-70-2	
Chromium	0.58 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7440-47-3	
Cobalt	2.8 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7440-48-4	
Copper	150 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7440-50-8	
Iron	8580 ug/L		50.0	1	01/15/13 09:06	01/18/13 22:27	7439-89-6	
Lead	16.7 ug/L		0.10	1	01/15/13 09:06	01/18/13 22:27	7439-92-1	
Magnesium	19000 ug/L		5.0	1	01/15/13 09:06	01/18/13 22:27	7439-95-4	
Manganese	1790 ug/L		10.0	20	01/15/13 09:06	01/19/13 20:26	7439-96-5	
Molybdenum	20.8 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7439-98-7	
Nickel	3.9 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7440-02-0	
Potassium	18800 ug/L		20.0	1	01/15/13 09:06	01/18/13 22:27	7440-09-7	
Selenium	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7782-49-2	
Silica	18100 ug/L		1070	20	01/15/13 09:06	01/18/13 22:32	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 22:27	7440-22-4	
Sodium	10300 ug/L		50.0	1	01/15/13 09:06	01/18/13 22:27	7440-23-5	
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/23/13 14:11	7440-28-0	
Total Hardness by 2340B	695000 ug/L		1420	20	01/15/13 09:06	01/18/13 22:32		
Vanadium	0.19 ug/L		0.10	1	01/15/13 09:06	01/18/13 22:27	7440-62-2	
Zinc	3030 ug/L		100	20	01/15/13 09:06	01/18/13 22:32	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	12.2 ug/L		4.0	1	01/17/13 08:43	01/18/13 16:59	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7440-38-2	
Barium, Dissolved	20.7 ug/L		0.30	1	01/17/13 08:43	01/18/13 16:59	7440-39-3	
Beryllium, Dissolved	0.33 ug/L		0.20	1	01/17/13 08:43	01/18/13 16:59	7440-41-7	
Cadmium, Dissolved	13.0 ug/L		0.080	1	01/17/13 08:43	01/18/13 16:59	7440-43-9	
Calcium, Dissolved	242000 ug/L		400	20	01/17/13 08:43	01/19/13 16:33	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7440-47-3	
Cobalt, Dissolved	2.7 ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7440-48-4	
Copper, Dissolved	5.4 ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7440-50-8	
Iron, Dissolved	281 ug/L		50.0	1	01/17/13 08:43	01/18/13 16:59	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 16:59	7439-92-1	
Magnesium, Dissolved	18300 ug/L		5.0	1	01/17/13 08:43	01/18/13 16:59	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-8_20130104	Lab ID: 60136463021	Collected: 01/04/13 15:07	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1790 ug/L		10.0	20	01/17/13 08:43	01/19/13 16:33	7439-96-5	
Molybdenum, Dissolved	19.7 ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7439-98-7	
Nickel, Dissolved	4.4 ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7440-02-0	
Potassium, Dissolved	18400 ug/L		20.0	1	01/17/13 08:43	01/18/13 16:59	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 16:59	7440-22-4	
Sodium, Dissolved	11500 ug/L		50.0	1	01/17/13 08:43	01/18/13 16:59	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 16:59	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 16:59	7440-62-2	
Zinc, Dissolved	2710 ug/L		100	20	01/17/13 08:43	01/18/13 17:05	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	840 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:05	7429-90-5	
Antimony, Dissolved	0.35J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-36-0	
Arsenic, Dissolved	1.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-38-2	
Barium, Dissolved	19.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-39-3	
Beryllium, Dissolved	0.97 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:05	7440-41-7	
Cadmium, Dissolved	15.1 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:05	7440-43-9	
Chromium, Dissolved	0.85J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-47-3	
Cobalt, Dissolved	2.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-48-4	
Copper, Dissolved	154 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-50-8	
Iron, Dissolved	9260 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:05	7439-89-6	
Lead, Dissolved	18.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7439-92-1	
Manganese, Dissolved	1730 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7439-96-5	
Molybdenum, Dissolved	21.8 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7439-98-7	
Nickel, Dissolved	2.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:05	7440-22-4	
Thallium, Dissolved	0.093J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:05	7440-62-2	
Zinc, Dissolved	2840 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:05	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 13:47	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 14:57	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:11	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1230 umhos/cm		10.0	1			01/15/13 12:33	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	785 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-8_20130104	Lab ID: 60136463021	Collected: 01/04/13 15:07	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.61 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	103 mg/L		20.0	1		01/09/13 11:15		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		01/09/13 11:15		
Alkalinity, Total as CaCO3	103 mg/L		20.0	1		01/09/13 11:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1050 mg/L		5.0	1		01/09/13 09:55		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	20.0 mg/L		5.0	1		01/09/13 09:38		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:55 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND mg/L		1.0	1		01/11/13 18:51 16887-00-6		
Sulfate	649 mg/L		50.0	50		01/11/13 19:09 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND mg/L		0.10	1		01/15/13 14:35		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 13:07 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/10/13 16:31 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-5_20130104	Lab ID: 60136463022	Collected: 01/04/13 15:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	245000 ug/L		100	1	01/09/13 16:00	01/17/13 10:16	7440-70-2	
Magnesium, Dissolved	21000 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:01	7439-95-4	
Potassium, Dissolved	22300 ug/L		500	1	01/09/13 16:00	01/17/13 15:01	7440-09-7	
Sodium, Dissolved	12000 ug/L		500	1	01/09/13 16:00	01/17/13 10:16	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	174 ug/L		4.0	1	01/15/13 09:06	01/18/13 22:38	7429-90-5	M6
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7440-36-0	
Arsenic	0.55 ug/L		0.50	1	01/15/13 09:06	01/23/13 14:16	7440-38-2	
Barium	19.9 ug/L		0.30	1	01/15/13 09:06	01/18/13 22:38	7440-39-3	
Beryllium	0.29 ug/L		0.20	1	01/15/13 09:06	01/18/13 22:38	7440-41-7	
Cadmium	10.3 ug/L		0.080	1	01/15/13 09:06	01/18/13 22:38	7440-43-9	
Calcium	280000 ug/L		400	20	01/15/13 09:06	01/25/13 14:11	7440-70-2	M6
Chromium	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7440-47-3	
Cobalt	2.4 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7440-48-4	
Copper	35.8 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7440-50-8	
Iron	2310 ug/L		50.0	1	01/15/13 09:06	01/18/13 22:38	7439-89-6	
Lead	3.8 ug/L		0.10	1	01/15/13 09:06	01/18/13 22:38	7439-92-1	
Magnesium	21100 ug/L		5.0	1	01/15/13 09:06	01/23/13 14:16	7439-95-4	M6
Manganese	1800 ug/L		2.5	5	01/15/13 09:06	01/25/13 14:07	7439-96-5	M6
Molybdenum	19.2 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7439-98-7	
Nickel	3.6 ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7440-02-0	
Potassium	19900 ug/L		20.0	1	01/15/13 09:06	01/18/13 22:38	7440-09-7	M6
Selenium	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7782-49-2	
Silica	18400 ug/L		268	5	01/15/13 09:06	01/25/13 14:07	7631-86-9	M1
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 22:38	7440-22-4	
Sodium	10500 ug/L		50.0	1	01/15/13 09:06	01/18/13 22:38	7440-23-5	M6
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/23/13 14:16	7440-28-0	
Total Hardness by 2340B	786000 ug/L		1420	20	01/15/13 09:06	01/25/13 14:11		M1
Vanadium	ND ug/L		0.10	1	01/15/13 09:06	01/18/13 22:38	7440-62-2	
Zinc	2550 ug/L		100	20	01/15/13 09:06	01/25/13 14:11	7440-66-6	M6
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	55.0 ug/L		4.0	1	01/17/13 08:43	01/18/13 17:10	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7440-38-2	
Barium, Dissolved	20.7 ug/L		0.30	1	01/17/13 08:43	01/18/13 17:10	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/17/13 08:43	01/18/13 17:10	7440-41-7	
Cadmium, Dissolved	1.2 ug/L		0.080	1	01/17/13 08:43	01/18/13 17:10	7440-43-9	
Calcium, Dissolved	255000 ug/L		400	20	01/17/13 08:43	01/19/13 17:01	7440-70-2	M6
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7440-47-3	
Cobalt, Dissolved	2.6 ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7440-48-4	
Copper, Dissolved	3.3 ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7440-50-8	
Iron, Dissolved	255 ug/L		50.0	1	01/17/13 08:43	01/18/13 17:10	7439-89-6	
Lead, Dissolved	0.30 ug/L		0.10	1	01/17/13 08:43	01/18/13 17:10	7439-92-1	
Magnesium, Dissolved	20000 ug/L		5.0	1	01/17/13 08:43	01/18/13 17:10	7439-95-4	M6

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-5_20130104	Lab ID: 60136463022	Collected: 01/04/13 15:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1890 ug/L		10.0	20	01/17/13 08:43	01/19/13 17:01	7439-96-5	M6
Molybdenum, Dissolved	19.6 ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7439-98-7	
Nickel, Dissolved	3.8 ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7440-02-0	
Potassium, Dissolved	19900 ug/L		20.0	1	01/17/13 08:43	01/18/13 17:10	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 17:10	7440-22-4	
Sodium, Dissolved	11900 ug/L		50.0	1	01/17/13 08:43	01/18/13 17:10	7440-23-5	M6
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 17:10	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 17:10	7440-62-2	
Zinc, Dissolved	2020 ug/L		100	20	01/17/13 08:43	01/18/13 17:32	7440-66-6	M6
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	228 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:10	7429-90-5	
Antimony, Dissolved	0.22J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-36-0	
Arsenic, Dissolved	0.50J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-38-2	
Barium, Dissolved	19.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-39-3	
Beryllium, Dissolved	0.26J ug/L		0.50	1	01/09/13 16:00	01/23/13 10:10	7440-41-7	
Cadmium, Dissolved	10.5 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:10	7440-43-9	
Chromium, Dissolved	0.38J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-47-3	
Cobalt, Dissolved	2.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-48-4	
Copper, Dissolved	35.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-50-8	
Iron, Dissolved	2370 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:10	7439-89-6	
Lead, Dissolved	4.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7439-92-1	
Manganese, Dissolved	1800 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7439-96-5	
Molybdenum, Dissolved	20.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7439-98-7	
Nickel, Dissolved	2.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:10	7440-22-4	
Thallium, Dissolved	0.073J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:10	7440-62-2	
Zinc, Dissolved	2170 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:10	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 13:49	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:12	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:13	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1340 umhos/cm		10.0	1			01/15/13 12:35	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	854 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-5_20130104	Lab ID: 60136463022	Collected: 01/04/13 15:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.67 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	114 mg/L		20.0	1		01/09/13 11:19		
Alkalinity, Carbonate (CaCO3)	ND mg/L		20.0	1		01/09/13 11:19		
Alkalinity, Total as CaCO3	114 mg/L		20.0	1		01/09/13 11:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1100 mg/L		5.0	1		01/09/13 09:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	6.0 mg/L		5.0	1		01/09/13 09:39		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	0.060 mg/L		0.050	1		01/09/13 15:55 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND mg/L		1.0	1		01/11/13 19:26 16887-00-6		
Sulfate	676 mg/L		50.0	50		01/11/13 19:44 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND mg/L		0.10	1		01/15/13 14:40		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 13:07 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/10/13 16:45 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-3D_20130104	Lab ID: 60136463023	Collected: 01/04/13 15:29	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	248000 ug/L		100	1	01/09/13 16:00	01/17/13 10:18	7440-70-2	
Magnesium, Dissolved	23100 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:03	7439-95-4	
Potassium, Dissolved	3570 ug/L		500	1	01/09/13 16:00	01/17/13 15:03	7440-09-7	
Sodium, Dissolved	12400 ug/L		500	1	01/09/13 16:00	01/17/13 10:18	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	707 ug/L		4.0	1	01/15/13 09:06	01/18/13 23:00	7429-90-5	
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7440-36-0	
Arsenic	6.0 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7440-38-2	
Barium	30.2 ug/L		0.30	1	01/15/13 09:06	01/18/13 23:00	7440-39-3	
Beryllium	ND ug/L		0.20	1	01/15/13 09:06	01/18/13 23:00	7440-41-7	
Cadmium	0.93 ug/L		0.080	1	01/15/13 09:06	01/18/13 23:00	7440-43-9	
Calcium	251000 ug/L		400	20	01/15/13 09:06	01/18/13 23:05	7440-70-2	
Chromium	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7440-47-3	
Cobalt	1.4 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7440-48-4	
Copper	4.7 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7440-50-8	
Iron	14900 ug/L		50.0	1	01/15/13 09:06	01/18/13 23:00	7439-89-6	
Lead	10.4 ug/L		0.10	1	01/15/13 09:06	01/18/13 23:00	7439-92-1	
Magnesium	26400 ug/L		100	20	01/15/13 09:06	01/19/13 21:21	7439-95-4	
Manganese	1580 ug/L		10.0	20	01/15/13 09:06	01/19/13 21:21	7439-96-5	
Molybdenum	10.9 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7439-98-7	
Nickel	0.77 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7440-02-0	
Potassium	3300 ug/L		20.0	1	01/15/13 09:06	01/18/13 23:00	7440-09-7	
Selenium	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7782-49-2	
Silica	16900 ug/L		1070	20	01/15/13 09:06	01/18/13 23:05	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:00	7440-22-4	
Sodium	10800 ug/L		50.0	1	01/15/13 09:06	01/18/13 23:00	7440-23-5	
Thallium	0.10 ug/L		0.10	1	01/15/13 09:06	01/19/13 21:16	7440-28-0	
Total Hardness by 2340B	736000 ug/L		1420	20	01/15/13 09:06	01/19/13 21:21		
Vanadium	1.6 ug/L		0.10	1	01/15/13 09:06	01/18/13 23:00	7440-62-2	
Zinc	96.2 ug/L		5.0	1	01/15/13 09:06	01/18/13 23:00	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	280 ug/L		4.0	1	01/17/13 08:43	01/22/13 11:46	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7440-36-0	
Arsenic, Dissolved	2.1 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7440-38-2	
Barium, Dissolved	22.5 ug/L		0.30	1	01/17/13 08:43	01/22/13 11:46	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/17/13 08:43	01/22/13 11:46	7440-41-7	
Cadmium, Dissolved	0.37 ug/L		0.080	1	01/17/13 08:43	01/22/13 11:46	7440-43-9	
Calcium, Dissolved	243000 ug/L		400	20	01/17/13 08:43	01/19/13 17:24	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7440-47-3	
Cobalt, Dissolved	1.2 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7440-48-4	
Copper, Dissolved	2.4 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7440-50-8	
Iron, Dissolved	4920 ug/L		50.0	1	01/17/13 08:43	01/22/13 11:46	7439-89-6	
Lead, Dissolved	4.4 ug/L		0.10	1	01/17/13 08:43	01/22/13 11:46	7439-92-1	
Magnesium, Dissolved	24900 ug/L		100	20	01/17/13 08:43	01/18/13 18:01	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-3D_20130104	Lab ID: 60136463023	Collected: 01/04/13 15:29	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1620 ug/L		10.0	20	01/17/13 08:43	01/19/13 17:24	7439-96-5	
Molybdenum, Dissolved	9.6 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7439-98-7	
Nickel, Dissolved	0.93 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7440-02-0	
Potassium, Dissolved	1430 ug/L		20.0	1	01/17/13 08:43	01/22/13 11:46	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 11:46	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 17:55	7440-22-4	
Sodium, Dissolved	12400 ug/L		50.0	1	01/17/13 08:43	01/22/13 11:46	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 17:55	7440-28-0	
Vanadium, Dissolved	0.68 ug/L		0.10	1	01/17/13 08:43	01/22/13 11:46	7440-62-2	
Zinc, Dissolved	61.9 ug/L		5.0	1	01/17/13 08:43	01/22/13 11:46	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	150 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:14	7429-90-5	
Antimony, Dissolved	0.064J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-36-0	
Arsenic, Dissolved	4.8 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-38-2	
Barium, Dissolved	22.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-39-3	
Beryllium, Dissolved	0.093J ug/L		0.50	1	01/09/13 16:00	01/23/13 10:14	7440-41-7	
Cadmium, Dissolved	0.83 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:14	7440-43-9	
Chromium, Dissolved	0.41J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-47-3	
Cobalt, Dissolved	1.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-48-4	
Copper, Dissolved	3.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-50-8	
Iron, Dissolved	13900 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:14	7439-89-6	
Lead, Dissolved	9.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7439-92-1	
Manganese, Dissolved	1630 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7439-96-5	
Molybdenum, Dissolved	10.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7439-98-7	
Nickel, Dissolved	ND ug/L		2.0	2	01/09/13 16:00	01/23/13 15:17	7440-02-0	D3
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:14	7440-22-4	
Thallium, Dissolved	0.085J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-28-0	
Vanadium, Dissolved	0.52J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:14	7440-62-2	
Zinc, Dissolved	92.0 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:14	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 13:52	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:14	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:16	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1220 umhos/cm		10.0	1			01/15/13 12:41	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	779 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-3D_20130104	Lab ID: 60136463023	Collected: 01/04/13 15:29	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.60	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	83.5	mg/L	20.0	1		01/09/13 11:23		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		01/09/13 11:23		
Alkalinity, Total as CaCO3	83.5	mg/L	20.0	1		01/09/13 11:23		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1040	mg/L	5.0	1		01/09/13 09:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	53.0	mg/L	5.0	1		01/09/13 09:39		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:55	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		01/11/13 20:02	16887-00-6	
Sulfate	656	mg/L	50.0	50		01/11/13 20:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		01/15/13 14:42		M1
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 13:08	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/10/13 16:59	7440-44-0	

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-3_20130104	Lab ID: 60136463024	Collected: 01/04/13 15:41	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	147000 ug/L		100	1	01/09/13 16:00	01/17/13 10:20	7440-70-2	
Magnesium, Dissolved	18800 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:05	7439-95-4	
Potassium, Dissolved	3450 ug/L		500	1	01/09/13 16:00	01/17/13 15:05	7440-09-7	
Sodium, Dissolved	3280 ug/L		500	1	01/09/13 16:00	01/17/13 10:20	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	26100 ug/L		80.0	20	01/15/13 09:06	01/18/13 23:34	7429-90-5	
Antimony	0.96 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7440-36-0	
Arsenic	46.0 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7440-38-2	
Barium	459 ug/L		6.0	20	01/15/13 09:06	01/18/13 23:34	7440-39-3	
Beryllium	1.3 ug/L		0.20	1	01/15/13 09:06	01/18/13 23:28	7440-41-7	
Cadmium	5.0 ug/L		0.080	1	01/15/13 09:06	01/18/13 23:28	7440-43-9	
Calcium	155000 ug/L		400	20	01/15/13 09:06	01/18/13 23:34	7440-70-2	
Chromium	36.7 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7440-47-3	
Cobalt	22.6 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7440-48-4	
Copper	203 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7440-50-8	
Iron	49900 ug/L		1000	20	01/15/13 09:06	01/18/13 23:34	7439-89-6	
Lead	522 ug/L		2.0	20	01/15/13 09:06	01/18/13 23:34	7439-92-1	
Magnesium	39600 ug/L		100	20	01/15/13 09:06	01/19/13 21:32	7439-95-4	
Manganese	4610 ug/L		10.0	20	01/15/13 09:06	01/18/13 23:34	7439-96-5	
Molybdenum	6.5 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7439-98-7	
Nickel	30.7 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7440-02-0	
Potassium	6440 ug/L		20.0	1	01/15/13 09:06	01/18/13 23:28	7440-09-7	
Selenium	9.5 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7782-49-2	
Silica	90900 ug/L		1070	20	01/15/13 09:06	01/18/13 23:34	7631-86-9	
Silver	4.0 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:28	7440-22-4	
Sodium	3680 ug/L		50.0	1	01/15/13 09:06	01/18/13 23:28	7440-23-5	
Thallium	0.50 ug/L		0.10	1	01/15/13 09:06	01/23/13 14:25	7440-28-0	
Total Hardness by 2340B	549000 ug/L		1420	20	01/15/13 09:06	01/19/13 21:32		
Vanadium	55.1 ug/L		0.10	1	01/15/13 09:06	01/18/13 23:28	7440-62-2	
Zinc	1140 ug/L		100	20	01/15/13 09:06	01/18/13 23:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	288 ug/L		4.0	1	01/17/13 08:43	01/22/13 11:50	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7440-36-0	
Arsenic, Dissolved	0.59 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7440-38-2	
Barium, Dissolved	23.4 ug/L		0.30	1	01/17/13 08:43	01/22/13 11:50	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/17/13 08:43	01/22/13 11:50	7440-41-7	
Cadmium, Dissolved	0.22 ug/L		0.080	1	01/17/13 08:43	01/22/13 11:50	7440-43-9	
Calcium, Dissolved	145000 ug/L		400	20	01/17/13 08:43	01/19/13 17:35	7440-70-2	
Chromium, Dissolved	0.65 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7440-48-4	
Copper, Dissolved	3.5 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7440-50-8	
Iron, Dissolved	462 ug/L		50.0	1	01/17/13 08:43	01/22/13 11:50	7439-89-6	
Lead, Dissolved	4.4 ug/L		0.10	1	01/17/13 08:43	01/22/13 11:50	7439-92-1	
Magnesium, Dissolved	17800 ug/L		5.0	1	01/17/13 08:43	01/22/13 11:50	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-3_20130104	Lab ID: 60136463024	Collected: 01/04/13 15:41	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	40.1 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7439-96-5	
Molybdenum, Dissolved	0.53 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7439-98-7	
Nickel, Dissolved	1.0 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7440-02-0	
Potassium, Dissolved	2700 ug/L		20.0	1	01/17/13 08:43	01/22/13 11:50	7440-09-7	
Selenium, Dissolved	2.6 ug/L		0.50	1	01/17/13 08:43	01/22/13 11:50	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:06	7440-22-4	
Sodium, Dissolved	3210 ug/L		50.0	1	01/17/13 08:43	01/22/13 11:50	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 18:06	7440-28-0	
Vanadium, Dissolved	0.63 ug/L		0.10	1	01/17/13 08:43	01/22/13 11:50	7440-62-2	
Zinc, Dissolved	44.1 ug/L		5.0	1	01/17/13 08:43	01/22/13 11:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	4260 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:18	7429-90-5	
Antimony, Dissolved	0.26J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-36-0	
Arsenic, Dissolved	8.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-38-2	
Barium, Dissolved	69.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-39-3	
Beryllium, Dissolved	0.56 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:18	7440-41-7	
Cadmium, Dissolved	3.8 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:18	7440-43-9	
Chromium, Dissolved	6.8 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-47-3	
Cobalt, Dissolved	6.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-48-4	
Copper, Dissolved	110 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-50-8	
Iron, Dissolved	8060 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:18	7439-89-6	
Lead, Dissolved	172 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7439-92-1	
Manganese, Dissolved	1340 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7439-96-5	
Molybdenum, Dissolved	0.24J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7439-98-7	
Nickel, Dissolved	7.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-02-0	
Selenium, Dissolved	3.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7782-49-2	
Silver, Dissolved	0.91 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:18	7440-22-4	
Thallium, Dissolved	0.022J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-28-0	
Vanadium, Dissolved	5.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:18	7440-62-2	
Zinc, Dissolved	635 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:18	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 13:59	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:43	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:18	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	780 umhos/cm		10.0	1			01/15/13 12:44	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	499 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: GW-3_20130104	Lab ID: 60136463024	Collected: 01/04/13 15:41	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.38	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	208	mg/L	20.0	1		01/09/13 11:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		01/09/13 11:28		
Alkalinity, Total as CaCO3	208	mg/L	20.0	1		01/09/13 11:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	546	mg/L	5.0	1		01/09/13 09:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	635	mg/L	5.0	1		01/09/13 09:39		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:55 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.4	mg/L	1.0	1		01/11/13 20:37 16887-00-6		
Sulfate	201	mg/L	20.0	20		01/11/13 20:55 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		01/15/13 14:44		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 13:08 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.5	mg/L	1.0	1		01/10/13 17:13 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-6_20130105	Lab ID: 60136463025	Collected: 01/05/13 08:34	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	240000 ug/L		100	1	01/09/13 16:00	01/17/13 10:22	7440-70-2	M1
Magnesium, Dissolved	24200 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:07	7439-95-4	
Potassium, Dissolved	34300 ug/L		500	1	01/09/13 16:00	01/17/13 15:07	7440-09-7	
Sodium, Dissolved	13500 ug/L		500	1	01/09/13 16:00	01/17/13 10:22	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	112 ug/L		4.0	1	01/15/13 09:06	01/18/13 23:44	7429-90-5	
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7440-36-0	
Arsenic	ND ug/L		0.50	1	01/15/13 09:06	01/23/13 14:31	7440-38-2	
Barium	21.6 ug/L		0.30	1	01/15/13 09:06	01/18/13 23:44	7440-39-3	
Beryllium	0.22 ug/L		0.20	1	01/15/13 09:06	01/18/13 23:44	7440-41-7	
Cadmium	7.3 ug/L		0.080	1	01/15/13 09:06	01/18/13 23:44	7440-43-9	
Calcium	292000 ug/L		400	20	01/15/13 09:06	01/25/13 14:16	7440-70-2	
Chromium	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7440-47-3	
Cobalt	2.4 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7440-48-4	
Copper	22.1 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7440-50-8	
Iron	1590 ug/L		50.0	1	01/15/13 09:06	01/18/13 23:44	7439-89-6	
Lead	2.4 ug/L		0.10	1	01/15/13 09:06	01/18/13 23:44	7439-92-1	
Magnesium	24600 ug/L		25.0	5	01/15/13 09:06	01/25/13 14:21	7439-95-4	
Manganese	1860 ug/L		2.5	5	01/15/13 09:06	01/25/13 14:21	7439-96-5	
Molybdenum	18.2 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7439-98-7	
Nickel	3.5 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7440-02-0	
Potassium	26000 ug/L		100	5	01/15/13 09:06	01/25/13 14:21	7440-09-7	
Selenium	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7782-49-2	
Silica	21100 ug/L		268	5	01/15/13 09:06	01/25/13 14:21	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:44	7440-22-4	
Sodium	13300 ug/L		50.0	1	01/15/13 09:06	01/18/13 23:44	7440-23-5	
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/23/13 14:31	7440-28-0	
Total Hardness by 2340B	830000 ug/L		1420	20	01/15/13 09:06	01/25/13 14:16		
Vanadium	ND ug/L		0.10	1	01/15/13 09:06	01/18/13 23:44	7440-62-2	
Zinc	2390 ug/L		100	20	01/15/13 09:06	01/25/13 14:16	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	12.2 ug/L		4.0	1	01/17/13 08:43	01/18/13 18:17	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/19/13 17:40	7440-38-2	
Barium, Dissolved	21.6 ug/L		0.30	1	01/17/13 08:43	01/18/13 18:17	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/17/13 08:43	01/19/13 17:40	7440-41-7	
Cadmium, Dissolved	0.45 ug/L		0.080	1	01/17/13 08:43	01/18/13 18:17	7440-43-9	
Calcium, Dissolved	269000 ug/L		400	20	01/17/13 08:43	01/19/13 17:45	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7440-47-3	
Cobalt, Dissolved	2.7 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7440-48-4	
Copper, Dissolved	1.9 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7440-50-8	
Iron, Dissolved	192 ug/L		50.0	1	01/17/13 08:43	01/18/13 18:17	7439-89-6	
Lead, Dissolved	0.10 ug/L		0.10	1	01/17/13 08:43	01/18/13 18:17	7439-92-1	
Magnesium, Dissolved	22400 ug/L		5.0	1	01/17/13 08:43	01/18/13 18:17	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-6_20130105	Lab ID: 60136463025	Collected: 01/05/13 08:34	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	1830 ug/L		10.0	20	01/17/13 08:43	01/19/13 17:45	7439-96-5	
Molybdenum, Dissolved	18.6 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7439-98-7	
Nickel, Dissolved	4.1 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7440-02-0	
Potassium, Dissolved	22700 ug/L		400	20	01/17/13 08:43	01/18/13 18:22	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:17	7440-22-4	
Sodium, Dissolved	14300 ug/L		50.0	1	01/17/13 08:43	01/18/13 18:17	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 18:17	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 18:17	7440-62-2	
Zinc, Dissolved	2060 ug/L		100	20	01/17/13 08:43	01/18/13 18:22	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	108 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:22	7429-90-5	
Antimony, Dissolved	0.21J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-36-0	
Arsenic, Dissolved	0.50J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-38-2	
Barium, Dissolved	20.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-39-3	
Beryllium, Dissolved	0.19J ug/L		0.50	1	01/09/13 16:00	01/23/13 10:22	7440-41-7	
Cadmium, Dissolved	7.3 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:22	7440-43-9	
Chromium, Dissolved	0.43J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-47-3	
Cobalt, Dissolved	2.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-48-4	
Copper, Dissolved	20.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-50-8	
Iron, Dissolved	1600 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:22	7439-89-6	
Lead, Dissolved	2.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7439-92-1	
Manganese, Dissolved	1770 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7439-96-5	M1
Molybdenum, Dissolved	19.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7439-98-7	
Nickel, Dissolved	1.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:22	7440-22-4	
Thallium, Dissolved	0.062J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:22	7440-62-2	
Zinc, Dissolved	2010 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:22	7440-66-6	M1
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 14:07	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:46	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:20	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1410 umhos/cm		10.0	1			01/15/13 12:46	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	900 mg/L		6.0	1			01/15/13 14:00	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: DR-6_20130105	Lab ID: 60136463025	Collected: 01/05/13 08:34	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.70	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	137	mg/L	20.0	1		01/09/13 11:32		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		01/09/13 11:32		
Alkalinity, Total as CaCO3	137	mg/L	20.0	1		01/09/13 11:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1190	mg/L	5.0	1		01/09/13 09:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5.0	mg/L	5.0	1		01/09/13 09:40		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:56 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	8.9	mg/L	1.0	1		01/11/13 21:13 16887-00-6		
Sulfate	691	mg/L	50.0	50		01/11/13 21:30 14808-79-8		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		01/15/13 14:45		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 13:11 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/10/13 17:28 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-2D_20130105	Lab ID: 60136463026	Collected: 01/05/13 08:51	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	270000 ug/L		100	1	01/09/13 16:00	01/17/13 15:10	7440-70-2	
Magnesium, Dissolved	24200 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:10	7439-95-4	
Potassium, Dissolved	2680 ug/L		500	1	01/09/13 16:00	01/17/13 15:10	7440-09-7	
Sodium, Dissolved	12400 ug/L		500	1	01/09/13 16:00	01/17/13 15:10	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	462 ug/L		4.0	1	01/15/13 09:06	01/18/13 23:55	7429-90-5	
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7440-36-0	
Arsenic	0.71 ug/L		0.50	1	01/15/13 09:06	01/23/13 14:35	7440-38-2	
Barium	17.9 ug/L		0.30	1	01/15/13 09:06	01/18/13 23:55	7440-39-3	
Beryllium	ND ug/L		0.20	1	01/15/13 09:06	01/18/13 23:55	7440-41-7	
Cadmium	1.0 ug/L		0.080	1	01/15/13 09:06	01/18/13 23:55	7440-43-9	
Calcium	257000 ug/L		400	20	01/15/13 09:06	01/19/13 00:00	7440-70-2	
Chromium	0.59 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7440-47-3	
Cobalt	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7440-48-4	
Copper	2.4 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7440-50-8	
Iron	819 ug/L		50.0	1	01/15/13 09:06	01/18/13 23:55	7439-89-6	
Lead	4.2 ug/L		0.10	1	01/15/13 09:06	01/18/13 23:55	7439-92-1	
Magnesium	21600 ug/L		5.0	1	01/15/13 09:06	01/23/13 14:35	7439-95-4	
Manganese	24.9 ug/L		0.50	1	01/15/13 09:06	01/23/13 14:35	7439-96-5	
Molybdenum	7.1 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7439-98-7	
Nickel	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7440-02-0	
Potassium	2180 ug/L		20.0	1	01/15/13 09:06	01/18/13 23:55	7440-09-7	
Selenium	1.5 ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7782-49-2	
Silica	12900 ug/L		1070	20	01/15/13 09:06	01/19/13 00:00	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/18/13 23:55	7440-22-4	
Sodium	9750 ug/L		50.0	1	01/15/13 09:06	01/18/13 23:55	7440-23-5	
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/23/13 14:35	7440-28-0	
Total Hardness by 2340B	730000 ug/L		1420	20	01/15/13 09:06	01/19/13 00:00		
Vanadium	0.84 ug/L		0.10	1	01/15/13 09:06	01/18/13 23:55	7440-62-2	
Zinc	25.0 ug/L		5.0	1	01/15/13 09:06	01/18/13 23:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	4.5 ug/L		4.0	1	01/17/13 08:43	01/18/13 18:28	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7440-36-0	
Arsenic, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7440-38-2	
Barium, Dissolved	12.9 ug/L		0.30	1	01/17/13 08:43	01/18/13 18:28	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/17/13 08:43	01/18/13 18:28	7440-41-7	
Cadmium, Dissolved	0.75 ug/L		0.080	1	01/17/13 08:43	01/18/13 18:28	7440-43-9	
Calcium, Dissolved	245000 ug/L		400	20	01/17/13 08:43	01/19/13 17:56	7440-70-2	
Chromium, Dissolved	0.54 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7440-47-3	
Cobalt, Dissolved	0.64 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7440-48-4	
Copper, Dissolved	1.5 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	01/17/13 08:43	01/18/13 18:28	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 18:28	7439-92-1	
Magnesium, Dissolved	20300 ug/L		5.0	1	01/17/13 08:43	01/18/13 18:28	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-2D_20130105	Lab ID: 60136463026	Collected: 01/05/13 08:51	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	3.0 ug/L		0.50	1	01/17/13 08:43	01/19/13 17:51	7439-96-5	
Molybdenum, Dissolved	7.1 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7439-98-7	
Nickel, Dissolved	1.9 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7440-02-0	
Potassium, Dissolved	2030 ug/L		20.0	1	01/17/13 08:43	01/18/13 18:28	7440-09-7	
Selenium, Dissolved	1.5 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:28	7440-22-4	
Sodium, Dissolved	10400 ug/L		50.0	1	01/17/13 08:43	01/18/13 18:28	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 18:28	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 18:28	7440-62-2	
Zinc, Dissolved	23.0 ug/L		5.0	1	01/17/13 08:43	01/18/13 18:28	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	84.0 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:30	7429-90-5	
Antimony, Dissolved	0.078J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-36-0	
Arsenic, Dissolved	0.41J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-38-2	
Barium, Dissolved	13.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:30	7440-41-7	
Cadmium, Dissolved	0.92 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:30	7440-43-9	
Chromium, Dissolved	0.81J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-47-3	
Cobalt, Dissolved	0.067J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-48-4	
Copper, Dissolved	1.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-50-8	
Iron, Dissolved	306 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:30	7439-89-6	
Lead, Dissolved	3.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7439-92-1	
Manganese, Dissolved	17.8 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7439-96-5	
Molybdenum, Dissolved	6.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7439-98-7	
Nickel, Dissolved	ND ug/L		2.0	2	01/09/13 16:00	01/23/13 15:21	7440-02-0	D3
Selenium, Dissolved	1.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7782-49-2	
Silver, Dissolved	0.15J ug/L		0.50	1	01/09/13 16:00	01/23/13 10:30	7440-22-4	
Thallium, Dissolved	0.11J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-28-0	
Vanadium, Dissolved	0.32J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:30	7440-62-2	
Zinc, Dissolved	24.7 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:30	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 14:09	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:48	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:22	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1200 umhos/cm		10.0	1			01/15/13 12:47	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	770 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-2D_20130105	Lab ID: 60136463026	Collected: 01/05/13 08:51	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.60	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	80.5	mg/L	20.0	1		01/09/13 11:36		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 11:36		
Alkalinity, Total as CaCO ₃	80.5	mg/L	20.0	1		01/09/13 11:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1020	mg/L	5.0	1		01/09/13 09:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	17.0	mg/L	5.0	1		01/09/13 09:40		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:56 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.3	mg/L	1.0	1		01/11/13 22:23 16887-00-6		
Sulfate	645	mg/L	50.0	50		01/11/13 22:41 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:46		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 13:11 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/10/13 17:42 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-5S_20130105	Lab ID: 60136463027	Collected: 01/05/13 09:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	407000 ug/L		100	1	01/09/13 16:00	01/17/13 10:27	7440-70-2	
Magnesium, Dissolved	110000 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:12	7439-95-4	
Potassium, Dissolved	2560 ug/L		500	1	01/09/13 16:00	01/17/13 15:12	7440-09-7	
Sodium, Dissolved	14000 ug/L		500	1	01/09/13 16:00	01/17/13 10:27	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	31100 ug/L		80.0	20	01/15/13 09:06	01/19/13 00:12	7429-90-5	
Antimony	2.8 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7440-36-0	
Arsenic	298 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7440-38-2	
Barium	108 ug/L		0.30	1	01/15/13 09:06	01/19/13 00:06	7440-39-3	
Beryllium	6.2 ug/L		0.20	1	01/15/13 09:06	01/19/13 00:06	7440-41-7	
Cadmium	179 ug/L		0.080	1	01/15/13 09:06	01/19/13 00:06	7440-43-9	
Calcium	502000 ug/L		1000	50	01/15/13 09:06	01/19/13 00:17	7440-70-2	
Chromium	1.9 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7440-47-3	
Cobalt	82.5 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7440-48-4	
Copper	970 ug/L		10.0	20	01/15/13 09:06	01/19/13 00:12	7440-50-8	
Iron	433000 ug/L		1000	20	01/15/13 09:06	01/19/13 00:12	7439-89-6	
Lead	6650 ug/L		2.0	20	01/15/13 09:06	01/19/13 00:12	7439-92-1	
Magnesium	135000 ug/L		100	20	01/15/13 09:06	01/19/13 00:12	7439-95-4	
Manganese	22700 ug/L		125	250	01/15/13 09:06	01/19/13 22:04	7439-96-5	
Molybdenum	4.7 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7439-98-7	
Nickel	145 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7440-02-0	
Potassium	4250 ug/L		20.0	1	01/15/13 09:06	01/19/13 00:06	7440-09-7	
Selenium	3.6 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7782-49-2	
Silica	94300 ug/L		2680	50	01/15/13 09:06	01/19/13 00:17	7631-86-9	
Silver	19.0 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:06	7440-22-4	
Sodium	13600 ug/L		50.0	1	01/15/13 09:06	01/19/13 00:06	7440-23-5	
Thallium	0.81 ug/L		0.10	1	01/15/13 09:06	01/19/13 00:06	7440-28-0	
Total Hardness by 2340B	1810000 ug/L		3550	50	01/15/13 09:06	01/19/13 00:17		
Vanadium	11.6 ug/L		0.10	1	01/15/13 09:06	01/19/13 00:06	7440-62-2	
Zinc	106000 ug/L		1250	250	01/15/13 09:06	01/19/13 22:04	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	20700 ug/L		4.0	1	01/17/13 08:43	01/18/13 18:38	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7440-36-0	
Arsenic, Dissolved	275 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7440-38-2	
Barium, Dissolved	17.4 ug/L		0.30	1	01/17/13 08:43	01/18/13 18:38	7440-39-3	
Beryllium, Dissolved	5.8 ug/L		4.0	20	01/17/13 08:43	01/19/13 18:01	7440-41-7	
Cadmium, Dissolved	153 ug/L		0.080	1	01/17/13 08:43	01/18/13 18:38	7440-43-9	
Calcium, Dissolved	488000 ug/L		2000	100	01/17/13 08:43	01/19/13 18:07	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7440-47-3	
Cobalt, Dissolved	81.6 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7440-48-4	
Copper, Dissolved	43.7 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7440-50-8	
Iron, Dissolved	366000 ug/L		1000	20	01/17/13 08:43	01/18/13 18:44	7439-89-6	
Lead, Dissolved	1350 ug/L		2.0	20	01/17/13 08:43	01/18/13 18:44	7439-92-1	
Magnesium, Dissolved	123000 ug/L		100	20	01/17/13 08:43	01/18/13 18:44	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-5S_20130105	Lab ID: 60136463027	Collected: 01/05/13 09:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	23400 ug/L		50.0	100	01/17/13 08:43	01/19/13 18:07	7439-96-5	
Molybdenum, Dissolved	0.56 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7439-98-7	
Nickel, Dissolved	144 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7440-02-0	
Potassium, Dissolved	2770 ug/L		20.0	1	01/17/13 08:43	01/18/13 18:38	7440-09-7	
Selenium, Dissolved	2.1 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7782-49-2	
Silver, Dissolved	0.73 ug/L		0.50	1	01/17/13 08:43	01/18/13 18:38	7440-22-4	
Sodium, Dissolved	14500 ug/L		50.0	1	01/17/13 08:43	01/18/13 18:38	7440-23-5	
Thallium, Dissolved	0.35 ug/L		0.10	1	01/17/13 08:43	01/18/13 18:38	7440-28-0	
Vanadium, Dissolved	2.8 ug/L		0.10	1	01/17/13 08:43	01/18/13 18:38	7440-62-2	
Zinc, Dissolved	153000 ug/L		2500	500	01/17/13 08:43	01/22/13 12:10	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	20300 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:34	7429-90-5	
Antimony, Dissolved	0.36J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-36-0	
Arsenic, Dissolved	275 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-38-2	
Barium, Dissolved	8.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-39-3	
Beryllium, Dissolved	4.9 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:34	7440-41-7	
Cadmium, Dissolved	165 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:34	7440-43-9	
Chromium, Dissolved	5.7 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-47-3	
Cobalt, Dissolved	80.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-48-4	
Copper, Dissolved	294 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-50-8	
Iron, Dissolved	340000 ug/L		10000	200	01/09/13 16:00	01/23/13 11:12	7439-89-6	
Lead, Dissolved	2920 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7439-92-1	
Manganese, Dissolved	21500 ug/L		200	200	01/09/13 16:00	01/23/13 11:12	7439-96-5	
Molybdenum, Dissolved	1.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7439-98-7	
Nickel, Dissolved	143 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-02-0	
Selenium, Dissolved	5.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:34	7440-22-4	
Thallium, Dissolved	0.49J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-28-0	
Vanadium, Dissolved	3.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:34	7440-62-2	
Zinc, Dissolved	101000 ug/L		2000	200	01/09/13 16:00	01/23/13 11:12	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 14:11	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:50	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:24	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	3450 umhos/cm		10.0	1			01/15/13 12:49	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	2210 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-5S_20130105	Lab ID: 60136463027	Collected: 01/05/13 09:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	1.8	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 11:38		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 11:38		
Alkalinity, Total as CaCO ₃	ND	mg/L	20.0	1		01/09/13 11:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	3980	mg/L	5.0	1		01/09/13 09:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	679	mg/L	5.0	1		01/09/13 09:40		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:56 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	4.2	mg/L	1.0	1		01/15/13 06:17 16887-00-6 B		
Sulfate	4270	mg/L	1000	1000		01/15/13 17:25 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	0.33	mg/L	0.10	1		01/15/13 14:47		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 13:12 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.5	mg/L	1.0	1		01/10/13 17:56 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-5D_20130105	Lab ID: 60136463028	Collected: 01/05/13 09:43	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	305000 ug/L		100	1	01/09/13 16:00	01/17/13 10:29	7440-70-2	
Magnesium, Dissolved	57400 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:14	7439-95-4	
Potassium, Dissolved	10700 ug/L		500	1	01/09/13 16:00	01/17/13 15:14	7440-09-7	
Sodium, Dissolved	7680 ug/L		500	1	01/09/13 16:00	01/17/13 10:29	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	829 ug/L		4.0	1	01/15/13 09:06	01/19/13 00:41	7429-90-5	
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7440-36-0	
Arsenic	248 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7440-38-2	
Barium	13.9 ug/L		0.30	1	01/15/13 09:06	01/19/13 00:41	7440-39-3	
Beryllium	2.5 ug/L		0.20	1	01/15/13 09:06	01/19/13 00:41	7440-41-7	
Cadmium	0.18 ug/L		0.080	1	01/15/13 09:06	01/23/13 14:40	7440-43-9	
Calcium	326000 ug/L		400	20	01/15/13 09:06	01/19/13 00:46	7440-70-2	
Chromium	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7440-47-3	
Cobalt	10.6 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7440-48-4	
Copper	3.7 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7440-50-8	
Iron	85600 ug/L		1000	20	01/15/13 09:06	01/19/13 00:46	7439-89-6	
Lead	14.0 ug/L		0.10	1	01/15/13 09:06	01/19/13 00:41	7439-92-1	
Magnesium	64000 ug/L		100	20	01/15/13 09:06	01/19/13 00:46	7439-95-4	
Manganese	13100 ug/L		25.0	50	01/15/13 09:06	01/25/13 15:01	7439-96-5	
Molybdenum	15.7 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7439-98-7	
Nickel	9.3 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7440-02-0	
Potassium	9770 ug/L		20.0	1	01/15/13 09:06	01/19/13 00:41	7440-09-7	
Selenium	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7782-49-2	
Silica	26000 ug/L		1070	20	01/15/13 09:06	01/19/13 00:46	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 00:41	7440-22-4	
Sodium	6810 ug/L		50.0	1	01/15/13 09:06	01/19/13 00:41	7440-23-5	
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/23/13 14:40	7440-28-0	
Total Hardness by 2340B	1080000 ug/L		1420	20	01/15/13 09:06	01/19/13 00:46		
Vanadium	0.14 ug/L		0.10	1	01/15/13 09:06	01/19/13 00:41	7440-62-2	
Zinc	10500 ug/L		250	50	01/15/13 09:06	01/25/13 15:01	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	717 ug/L		4.0	1	01/17/13 08:43	01/18/13 19:07	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7440-36-0	
Arsenic, Dissolved	149 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7440-38-2	
Barium, Dissolved	13.1 ug/L		0.30	1	01/17/13 08:43	01/18/13 19:07	7440-39-3	
Beryllium, Dissolved	2.8 ug/L		2.0	10	01/17/13 08:43	01/19/13 18:41	7440-41-7	
Cadmium, Dissolved	0.18 ug/L		0.080	1	01/17/13 08:43	01/18/13 19:07	7440-43-9	
Calcium, Dissolved	21800 ug/L		400	20	01/17/13 08:43	01/22/13 11:56	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7440-47-3	
Cobalt, Dissolved	10.2 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7440-48-4	
Copper, Dissolved	1.2 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7440-50-8	
Iron, Dissolved	15100 ug/L		1000	20	01/17/13 08:43	01/22/13 11:56	7439-89-6	
Lead, Dissolved	1.6 ug/L		0.10	1	01/17/13 08:43	01/18/13 19:07	7439-92-1	
Magnesium, Dissolved	5330 ug/L		100	20	01/17/13 08:43	01/22/13 11:56	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-5D_20130105	Lab ID: 60136463028	Collected: 01/05/13 09:43	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	976 ug/L		10.0	20	01/17/13 08:43	01/22/13 11:56	7439-96-5	
Molybdenum, Dissolved	14.5 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7439-98-7	
Nickel, Dissolved	9.0 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7440-02-0	
Potassium, Dissolved	9030 ug/L		20.0	1	01/17/13 08:43	01/18/13 19:07	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:07	7440-22-4	
Sodium, Dissolved	7160 ug/L		50.0	1	01/17/13 08:43	01/18/13 19:07	7440-23-5	
Thallium, Dissolved	0.11 ug/L		0.10	1	01/17/13 08:43	01/18/13 19:07	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 19:07	7440-62-2	
Zinc, Dissolved	4450 ug/L		100	20	01/17/13 08:43	01/22/13 11:56	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	802 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:39	7429-90-5	
Antimony, Dissolved	0.060J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-36-0	
Arsenic, Dissolved	222 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-38-2	
Barium, Dissolved	12.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-39-3	
Beryllium, Dissolved	2.2 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:39	7440-41-7	
Cadmium, Dissolved	0.16J ug/L		0.50	1	01/09/13 16:00	01/23/13 10:39	7440-43-9	
Chromium, Dissolved	0.39J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-47-3	
Cobalt, Dissolved	9.5 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-48-4	
Copper, Dissolved	3.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-50-8	
Iron, Dissolved	83600 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:39	7439-89-6	
Lead, Dissolved	14.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7439-92-1	
Manganese, Dissolved	12000 ug/L		200	200	01/09/13 16:00	01/23/13 11:16	7439-96-5	
Molybdenum, Dissolved	15.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7439-98-7	
Nickel, Dissolved	6.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:39	7440-22-4	
Thallium, Dissolved	0.094J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:39	7440-62-2	
Zinc, Dissolved	9370 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:39	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 14:14	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:52	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:38	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1700 umhos/cm		10.0	1			01/15/13 12:50	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1090 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-5D_20130105	Lab ID: 60136463028	Collected: 01/05/13 09:43	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.86	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	85.3	mg/L	20.0	1		01/09/13 11:43		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 11:43		
Alkalinity, Total as CaCO ₃	85.3	mg/L	20.0	1		01/09/13 11:43		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1670	mg/L	5.0	1		01/09/13 09:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	36.0	mg/L	5.0	1		01/09/13 09:40		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:56 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.3	mg/L	1.0	1		01/11/13 23:34 16887-00-6		
Sulfate	1380	mg/L	100	100		01/11/13 23:52 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:48		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	0.0059	mg/L	0.0050	1		01/09/13 13:12 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		01/11/13 16:55 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-6S_20130105	Lab ID: 60136463029	Collected: 01/05/13 09:54	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	376000 ug/L		100	1	01/09/13 16:00	01/17/13 10:31	7440-70-2	
Magnesium, Dissolved	52800 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:16	7439-95-4	
Potassium, Dissolved	13500 ug/L		500	1	01/09/13 16:00	01/17/13 15:16	7440-09-7	
Sodium, Dissolved	4340 ug/L		500	1	01/09/13 16:00	01/17/13 10:31	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	35600 ug/L		80.0	20	01/15/13 09:06	01/19/13 01:02	7429-90-5	
Antimony	0.94 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7440-36-0	
Arsenic	126 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7440-38-2	
Barium	238 ug/L		0.30	1	01/15/13 09:06	01/19/13 00:57	7440-39-3	
Beryllium	2.4 ug/L		0.20	1	01/15/13 09:06	01/19/13 00:57	7440-41-7	
Cadmium	25.1 ug/L		0.080	1	01/15/13 09:06	01/19/13 00:57	7440-43-9	
Calcium	430000 ug/L		400	20	01/15/13 09:06	01/19/13 01:02	7440-70-2	
Chromium	31.0 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7440-47-3	
Cobalt	21.5 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7440-48-4	
Copper	179 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7440-50-8	
Iron	98700 ug/L		1000	20	01/15/13 09:06	01/19/13 01:02	7439-89-6	
Lead	306 ug/L		0.10	1	01/15/13 09:06	01/19/13 00:57	7439-92-1	
Magnesium	76200 ug/L		100	20	01/15/13 09:06	01/19/13 01:02	7439-95-4	
Manganese	8950 ug/L		10.0	20	01/15/13 09:06	01/19/13 01:02	7439-96-5	
Molybdenum	12.5 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7439-98-7	
Nickel	39.5 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7440-02-0	
Potassium	16800 ug/L		20.0	1	01/15/13 09:06	01/19/13 00:57	7440-09-7	
Selenium	3.0 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7782-49-2	
Silica	121000 ug/L		2680	50	01/15/13 09:06	01/19/13 01:08	7631-86-9	
Silver	1.8 ug/L		0.50	1	01/15/13 09:06	01/19/13 00:57	7440-22-4	
Sodium	3930 ug/L		50.0	1	01/15/13 09:06	01/19/13 00:57	7440-23-5	
Thallium	0.93 ug/L		0.10	1	01/15/13 09:06	01/19/13 00:57	7440-28-0	
Total Hardness by 2340B	1390000 ug/L		1420	20	01/15/13 09:06	01/19/13 01:02		
Vanadium	43.0 ug/L		0.10	1	01/15/13 09:06	01/19/13 00:57	7440-62-2	
Zinc	5380 ug/L		100	20	01/15/13 09:06	01/19/13 01:02	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	682 ug/L		4.0	1	01/17/13 08:43	01/18/13 19:18	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7440-36-0	
Arsenic, Dissolved	44.5 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7440-38-2	
Barium, Dissolved	16.8 ug/L		0.30	1	01/17/13 08:43	01/18/13 19:18	7440-39-3	
Beryllium, Dissolved	0.92 ug/L		0.20	1	01/17/13 08:43	01/19/13 18:35	7440-41-7	
Cadmium, Dissolved	0.096 ug/L		0.080	1	01/17/13 08:43	01/18/13 19:18	7440-43-9	
Calcium, Dissolved	391000 ug/L		400	20	01/17/13 08:43	01/19/13 18:12	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7440-47-3	
Cobalt, Dissolved	4.1 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7440-48-4	
Copper, Dissolved	1.0 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7440-50-8	
Iron, Dissolved	51000 ug/L		1000	20	01/17/13 08:43	01/18/13 19:23	7439-89-6	
Lead, Dissolved	0.18 ug/L		0.10	1	01/17/13 08:43	01/18/13 19:18	7439-92-1	
Magnesium, Dissolved	54800 ug/L		100	20	01/17/13 08:43	01/18/13 19:23	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-6S_20130105	Lab ID: 60136463029	Collected: 01/05/13 09:54	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	7790 ug/L		10.0	20	01/17/13 08:43	01/19/13 18:12	7439-96-5	
Molybdenum, Dissolved	4.9 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7439-98-7	
Nickel, Dissolved	2.1 ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7440-02-0	
Potassium, Dissolved	11600 ug/L		20.0	1	01/17/13 08:43	01/18/13 19:18	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:18	7440-22-4	
Sodium, Dissolved	4090 ug/L		50.0	1	01/17/13 08:43	01/18/13 19:18	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 19:18	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 19:18	7440-62-2	
Zinc, Dissolved	643 ug/L		100	20	01/17/13 08:43	01/18/13 19:23	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	9100 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:43	7429-90-5	
Antimony, Dissolved	0.13J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-36-0	
Arsenic, Dissolved	69.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-38-2	
Barium, Dissolved	27.7 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-39-3	
Beryllium, Dissolved	1.3 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:43	7440-41-7	
Cadmium, Dissolved	17.0 ug/L		0.50	1	01/09/13 16:00	01/23/13 10:43	7440-43-9	
Chromium, Dissolved	6.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-47-3	
Cobalt, Dissolved	10.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-48-4	
Copper, Dissolved	57.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-50-8	
Iron, Dissolved	60200 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:43	7439-89-6	
Lead, Dissolved	257 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7439-92-1	
Manganese, Dissolved	7560 ug/L		100	100	01/09/13 16:00	01/23/13 11:20	7439-96-5	
Molybdenum, Dissolved	3.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7439-98-7	
Nickel, Dissolved	10.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-02-0	
Selenium, Dissolved	1.8 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:43	7440-22-4	
Thallium, Dissolved	0.32J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-28-0	
Vanadium, Dissolved	7.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:43	7440-62-2	
Zinc, Dissolved	3620 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:43	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 14:16	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 15:59	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:40	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1820 umhos/cm		10.0	1			01/15/13 12:52	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	1160 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-6S_20130105	Lab ID: 60136463029	Collected: 01/05/13 09:54	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.92 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	145 mg/L		20.0	1		01/09/13 11:57		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		01/09/13 11:57		
Alkalinity, Total as CaCO ₃	145 mg/L		20.0	1		01/09/13 11:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1780 mg/L		5.0	1		01/09/13 09:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	917 mg/L		5.0	1		01/09/13 09:40		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:56 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.6 mg/L		1.0	1		01/12/13 00:10 16887-00-6		
Sulfate	1180 mg/L		100	100		01/12/13 00:27 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND mg/L		0.10	1		01/15/13 14:51		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 12:06 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.2 mg/L		1.0	1		01/14/13 10:27 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-6D_20130105	Lab ID: 60136463030	Collected: 01/05/13 10:09	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	196000 ug/L		100	1	01/09/13 16:00	01/17/13 10:33	7440-70-2	
Magnesium, Dissolved	27800 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:18	7439-95-4	
Potassium, Dissolved	4310 ug/L		500	1	01/09/13 16:00	01/17/13 15:18	7440-09-7	
Sodium, Dissolved	4580 ug/L		500	1	01/09/13 16:00	01/17/13 10:33	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	260 ug/L		4.0	1	01/15/13 09:06	01/19/13 01:13	7429-90-5	
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7440-36-0	
Arsenic	34.2 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7440-38-2	
Barium	19.6 ug/L		0.30	1	01/15/13 09:06	01/19/13 01:13	7440-39-3	
Beryllium	0.36 ug/L		0.20	1	01/15/13 09:06	01/19/13 01:13	7440-41-7	
Cadmium	0.28 ug/L		0.080	1	01/15/13 09:06	01/19/13 22:38	7440-43-9	
Calcium	240000 ug/L		400	20	01/15/13 09:06	01/19/13 01:18	7440-70-2	
Chromium	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7440-47-3	
Cobalt	2.3 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7440-48-4	
Copper	2.2 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7440-50-8	
Iron	5280 ug/L		50.0	1	01/15/13 09:06	01/19/13 01:13	7439-89-6	
Lead	4.6 ug/L		0.10	1	01/15/13 09:06	01/19/13 01:13	7439-92-1	
Magnesium	33200 ug/L		100	20	01/15/13 09:06	01/19/13 22:43	7439-95-4	
Manganese	4990 ug/L		10.0	20	01/15/13 09:06	01/19/13 01:18	7439-96-5	
Molybdenum	5.5 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7439-98-7	
Nickel	2.7 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7440-02-0	
Potassium	4060 ug/L		20.0	1	01/15/13 09:06	01/19/13 01:13	7440-09-7	
Selenium	0.69 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7782-49-2	
Silica	14300 ug/L		1070	20	01/15/13 09:06	01/19/13 01:18	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:13	7440-22-4	
Sodium	4540 ug/L		50.0	1	01/15/13 09:06	01/19/13 01:13	7440-23-5	
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/19/13 01:13	7440-28-0	
Total Hardness by 2340B	736000 ug/L		1420	20	01/15/13 09:06	01/19/13 22:43		
Vanadium	0.32 ug/L		0.10	1	01/15/13 09:06	01/19/13 01:13	7440-62-2	
Zinc	328 ug/L		5.0	1	01/15/13 09:06	01/19/13 01:13	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	111 ug/L		4.0	1	01/25/13 17:28	01/28/13 22:56	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7440-36-0	
Arsenic, Dissolved	2.3 ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7440-38-2	
Barium, Dissolved	17.2 ug/L		0.30	1	01/25/13 17:28	01/28/13 22:56	7440-39-3	
Beryllium, Dissolved	0.35 ug/L		0.20	1	01/25/13 17:28	01/28/13 22:56	7440-41-7	
Cadmium, Dissolved	0.15 ug/L		0.080	1	01/25/13 17:28	01/28/13 22:56	7440-43-9	
Calcium, Dissolved	229000 ug/L		500	25	01/25/13 17:28	01/28/13 23:05	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7440-47-3	
Cobalt, Dissolved	2.2 ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7440-48-4	
Copper, Dissolved	0.84 ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7440-50-8	
Iron, Dissolved	3200 ug/L		50.0	1	01/25/13 17:28	01/28/13 22:56	7439-89-6	
Lead, Dissolved	0.17 ug/L		0.10	1	01/25/13 17:28	01/28/13 22:56	7439-92-1	
Magnesium, Dissolved	32400 ug/L		25.0	5	01/25/13 17:28	01/28/13 23:01	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-6D_20130105	Lab ID: 60136463030	Collected: 01/05/13 10:09	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	4830 ug/L		12.5	25	01/25/13 17:28	01/28/13 23:05	7439-96-5	
Molybdenum, Dissolved	5.5 ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7439-98-7	
Nickel, Dissolved	3.1 ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7440-02-0	
Potassium, Dissolved	4320 ug/L		20.0	1	01/25/13 17:28	01/28/13 22:56	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/25/13 17:28	01/28/13 22:56	7440-22-4	
Sodium, Dissolved	5190 ug/L		50.0	1	01/25/13 17:28	01/28/13 22:56	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/25/13 17:28	01/28/13 22:56	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/25/13 17:28	01/28/13 22:56	7440-62-2	
Zinc, Dissolved	318 ug/L		5.0	1	01/25/13 17:28	01/28/13 22:56	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	151 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:55	7429-90-5	
Antimony, Dissolved	0.11J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-36-0	
Arsenic, Dissolved	25.1 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-38-2	
Barium, Dissolved	16.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-39-3	
Beryllium, Dissolved	0.36J ug/L		0.50	1	01/09/13 16:00	01/23/13 10:55	7440-41-7	
Cadmium, Dissolved	0.26J ug/L		0.50	1	01/09/13 16:00	01/23/13 10:55	7440-43-9	
Chromium, Dissolved	0.42J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-47-3	
Cobalt, Dissolved	1.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-48-4	
Copper, Dissolved	1.3 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-50-8	
Iron, Dissolved	4860 ug/L		50.0	1	01/09/13 16:00	01/23/13 10:55	7439-89-6	
Lead, Dissolved	3.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7439-92-1	
Manganese, Dissolved	4790 ug/L		100	100	01/09/13 16:00	01/23/13 11:24	7439-96-5	
Molybdenum, Dissolved	5.2 ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7439-98-7	
Nickel, Dissolved	0.95J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-02-0	
Selenium, Dissolved	0.49J ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 10:55	7440-22-4	
Thallium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 10:55	7440-62-2	
Zinc, Dissolved	311 ug/L		10.0	1	01/09/13 16:00	01/23/13 10:55	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 14:24	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 16:01	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:42	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1120 umhos/cm		10.0	1			01/15/13 12:53	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	716 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-6D_20130105	Lab ID: 60136463030	Collected: 01/05/13 10:09	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.55 PSU		0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	193 mg/L		20.0	1		01/09/13 12:01		
Alkalinity, Carbonate (CaCO ₃)	ND mg/L		20.0	1		01/09/13 12:01		
Alkalinity, Total as CaCO ₃	193 mg/L		20.0	1		01/09/13 12:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	948 mg/L		5.0	1		01/09/13 09:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	16.0 mg/L		5.0	1		01/09/13 09:41		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND mg/L		0.050	1		01/09/13 15:56 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.4 mg/L		1.0	1		01/12/13 00:45 16887-00-6		
Sulfate	499 mg/L		50.0	50		01/12/13 01:03 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND mg/L		0.10	1		01/15/13 14:52		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND mg/L		0.0050	1		01/09/13 12:07 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND mg/L		1.0	1		01/14/13 10:41 7440-44-0		

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-104_20130105	Lab ID: 60136463031	Collected: 01/05/13 10:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	99100 ug/L		100	1	01/09/13 16:00	01/17/13 10:39	7440-70-2	
Magnesium, Dissolved	11400 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:24	7439-95-4	
Potassium, Dissolved	10000 ug/L		500	1	01/09/13 16:00	01/17/13 15:24	7440-09-7	
Sodium, Dissolved	217000 ug/L		500	1	01/09/13 16:00	01/17/13 10:39	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	734 ug/L		4.0	1	01/15/13 09:06	01/19/13 01:24	7429-90-5	
Antimony	0.57 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7440-36-0	
Arsenic	1.7 ug/L		0.50	1	01/15/13 09:06	01/23/13 15:06	7440-38-2	
Barium	27.6 ug/L		0.30	1	01/15/13 09:06	01/19/13 01:24	7440-39-3	
Beryllium	ND ug/L		0.20	1	01/15/13 09:06	01/19/13 01:24	7440-41-7	
Cadmium	0.86 ug/L		0.080	1	01/15/13 09:06	01/19/13 01:24	7440-43-9	
Calcium	112000 ug/L		200	10	01/15/13 09:06	01/25/13 15:06	7440-70-2	
Chromium	1.2 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7440-47-3	
Cobalt	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7440-48-4	
Copper	6.8 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7440-50-8	
Iron	744 ug/L		50.0	1	01/15/13 09:06	01/19/13 01:24	7439-89-6	
Lead	4.1 ug/L		0.10	1	01/15/13 09:06	01/19/13 01:24	7439-92-1	
Magnesium	11600 ug/L		5.0	1	01/15/13 09:06	01/19/13 01:24	7439-95-4	
Manganese	312 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7439-96-5	
Molybdenum	433 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7439-98-7	
Nickel	2.0 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7440-02-0	
Potassium	9140 ug/L		20.0	1	01/15/13 09:06	01/19/13 01:24	7440-09-7	
Selenium	0.91 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7782-49-2	
Silica	10800 ug/L		535	10	01/15/13 09:06	01/25/13 15:06	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:24	7440-22-4	
Sodium	272000 ug/L		1000	20	01/15/13 09:06	01/25/13 15:10	7440-23-5	
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/19/13 01:24	7440-28-0	
Total Hardness by 2340B	328000 ug/L		710	10	01/15/13 09:06	01/25/13 15:06		
Vanadium	1.4 ug/L		0.10	1	01/15/13 09:06	01/19/13 01:24	7440-62-2	
Zinc	284 ug/L		5.0	1	01/15/13 09:06	01/19/13 01:24	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	9.2 ug/L		4.0	1	01/17/13 08:43	01/22/13 12:15	7429-90-5	
Antimony, Dissolved	0.54 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:15	7440-36-0	
Arsenic, Dissolved	1.2 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:15	7440-38-2	
Barium, Dissolved	14.6 ug/L		0.30	1	01/17/13 08:43	01/22/13 12:15	7440-39-3	
Beryllium, Dissolved	ND ug/L		0.20	1	01/17/13 08:43	01/22/13 12:15	7440-41-7	
Cadmium, Dissolved	0.44 ug/L		0.080	1	01/17/13 08:43	01/22/13 12:15	7440-43-9	
Calcium, Dissolved	108000 ug/L		400	20	01/17/13 08:43	01/19/13 19:13	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 12:15	7440-47-3	
Cobalt, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 12:15	7440-48-4	
Copper, Dissolved	3.2 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:15	7440-50-8	
Iron, Dissolved	ND ug/L		50.0	1	01/17/13 08:43	01/22/13 12:15	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/22/13 12:15	7439-92-1	
Magnesium, Dissolved	11300 ug/L		5.0	1	01/17/13 08:43	01/22/13 12:15	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-104_20130105	Lab ID: 60136463031	Collected: 01/05/13 10:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	106	ug/L	0.50	1	01/17/13 08:43	01/22/13 12:15	7439-96-5	
Molybdenum, Dissolved	425	ug/L	0.50	1	01/17/13 08:43	01/22/13 12:15	7439-98-7	
Nickel, Dissolved	1.9	ug/L	0.50	1	01/17/13 08:43	01/22/13 12:15	7440-02-0	
Potassium, Dissolved	8970	ug/L	20.0	1	01/17/13 08:43	01/22/13 12:15	7440-09-7	
Selenium, Dissolved	0.81	ug/L	0.50	1	01/17/13 08:43	01/22/13 12:15	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	01/17/13 08:43	01/18/13 19:39	7440-22-4	
Sodium, Dissolved	235000	ug/L	1000	20	01/17/13 08:43	01/18/13 19:45	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	01/17/13 08:43	01/18/13 19:39	7440-28-0	
Vanadium, Dissolved	0.11	ug/L	0.10	1	01/17/13 08:43	01/22/13 12:15	7440-62-2	
Zinc, Dissolved	238	ug/L	5.0	1	01/17/13 08:43	01/22/13 12:15	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	188	ug/L	50.0	1	01/09/13 16:00	01/23/13 10:59	7429-90-5	
Antimony, Dissolved	0.54J	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-36-0	
Arsenic, Dissolved	1.4	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-38-2	
Barium, Dissolved	19.8	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	01/09/13 16:00	01/23/13 10:59	7440-41-7	
Cadmium, Dissolved	0.86	ug/L	0.50	1	01/09/13 16:00	01/23/13 10:59	7440-43-9	
Chromium, Dissolved	0.82J	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-47-3	
Cobalt, Dissolved	0.27J	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-48-4	
Copper, Dissolved	5.7	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-50-8	
Iron, Dissolved	422	ug/L	50.0	1	01/09/13 16:00	01/23/13 10:59	7439-89-6	
Lead, Dissolved	4.8	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7439-92-1	
Manganese, Dissolved	263	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7439-96-5	
Molybdenum, Dissolved	424	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7439-98-7	
Nickel, Dissolved	0.94J	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-02-0	
Selenium, Dissolved	0.78J	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	01/09/13 16:00	01/23/13 10:59	7440-22-4	
Thallium, Dissolved	0.023J	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-28-0	
Vanadium, Dissolved	0.53J	ug/L	1.0	1	01/09/13 16:00	01/23/13 10:59	7440-62-2	
Zinc, Dissolved	303	ug/L	10.0	1	01/09/13 16:00	01/23/13 10:59	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	01/22/13 11:12	01/23/13 14:26	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	01/18/13 11:22	01/22/13 16:03	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	01/10/13 09:50	01/10/13 15:47	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1460	umhos/cm	10.0	1			01/15/13 12:54	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	934	mg/L	6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-104_20130105	Lab ID: 60136463031	Collected: 01/05/13 10:20	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.73	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	116	mg/L	20.0	1		01/09/13 12:05		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		01/09/13 12:05		
Alkalinity, Total as CaCO3	116	mg/L	20.0	1		01/09/13 12:05		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1120	mg/L	5.0	1		01/09/13 09:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	25.0	mg/L	5.0	1		01/09/13 09:41		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	4.4	mg/L	1.0	1		01/12/13 01:56	16887-00-6	
Sulfate	686	mg/L	50.0	50		01/12/13 02:14	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		01/15/13 14:52		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 12:09	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.0	mg/L	1.0	1		01/14/13 10:55	7440-44-0	

ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-103_20130105	Lab ID: 60136463032	Collected: 01/05/13 10:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	317000 ug/L		100	1	01/09/13 16:00	01/17/13 10:41	7440-70-2	
Magnesium, Dissolved	31400 ug/L		50.0	1	01/09/13 16:00	01/17/13 15:26	7439-95-4	
Potassium, Dissolved	4490 ug/L		500	1	01/09/13 16:00	01/17/13 15:26	7440-09-7	
Sodium, Dissolved	15700 ug/L		500	1	01/09/13 16:00	01/17/13 10:41	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	369 ug/L		4.0	1	01/15/13 09:06	01/19/13 01:52	7429-90-5	
Antimony	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7440-36-0	
Arsenic	16.9 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7440-38-2	
Barium	39.7 ug/L		0.30	1	01/15/13 09:06	01/19/13 01:52	7440-39-3	
Beryllium	0.43 ug/L		0.20	1	01/15/13 09:06	01/19/13 01:52	7440-41-7	
Cadmium	0.16 ug/L		0.080	1	01/15/13 09:06	01/19/13 22:54	7440-43-9	
Calcium	343000 ug/L		400	20	01/15/13 09:06	01/19/13 01:58	7440-70-2	
Chromium	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7440-47-3	
Cobalt	4.5 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7440-48-4	
Copper	1.8 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7440-50-8	
Iron	19600 ug/L		50.0	1	01/15/13 09:06	01/19/13 01:52	7439-89-6	
Lead	1.3 ug/L		0.10	1	01/15/13 09:06	01/19/13 01:52	7439-92-1	
Magnesium	33300 ug/L		100	20	01/15/13 09:06	01/19/13 22:59	7439-95-4	
Manganese	9000 ug/L		25.0	50	01/15/13 09:06	01/24/13 14:05	7439-96-5	
Molybdenum	9.6 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7439-98-7	
Nickel	2.1 ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7440-02-0	
Potassium	3770 ug/L		20.0	1	01/15/13 09:06	01/19/13 01:52	7440-09-7	
Selenium	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7782-49-2	
Silica	28500 ug/L		1070	20	01/15/13 09:06	01/19/13 01:58	7631-86-9	
Silver	ND ug/L		0.50	1	01/15/13 09:06	01/19/13 01:52	7440-22-4	
Sodium	13700 ug/L		50.0	1	01/15/13 09:06	01/19/13 01:52	7440-23-5	
Thallium	ND ug/L		0.10	1	01/15/13 09:06	01/19/13 22:54	7440-28-0	
Total Hardness by 2340B	994000 ug/L		1420	20	01/15/13 09:06	01/19/13 22:59		
Vanadium	0.85 ug/L		0.10	1	01/15/13 09:06	01/19/13 01:52	7440-62-2	
Zinc	145 ug/L		5.0	1	01/15/13 09:06	01/19/13 01:52	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	27.9 ug/L		4.0	1	01/17/13 08:43	01/22/13 12:19	7429-90-5	
Antimony, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7440-36-0	
Arsenic, Dissolved	2.5 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7440-38-2	
Barium, Dissolved	31.6 ug/L		0.30	1	01/17/13 08:43	01/22/13 12:19	7440-39-3	
Beryllium, Dissolved	0.32 ug/L		0.20	1	01/17/13 08:43	01/22/13 12:19	7440-41-7	
Cadmium, Dissolved	ND ug/L		0.080	1	01/17/13 08:43	01/22/13 12:19	7440-43-9	
Calcium, Dissolved	355000 ug/L		400	20	01/17/13 08:43	01/22/13 12:24	7440-70-2	
Chromium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7440-47-3	
Cobalt, Dissolved	3.9 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7440-48-4	
Copper, Dissolved	0.51 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7440-50-8	
Iron, Dissolved	7800 ug/L		50.0	1	01/17/13 08:43	01/22/13 12:19	7439-89-6	
Lead, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/22/13 12:19	7439-92-1	
Magnesium, Dissolved	34700 ug/L		100	20	01/17/13 08:43	01/22/13 12:24	7439-95-4	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-103_20130105	Lab ID: 60136463032	Collected: 01/05/13 10:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	9640 ug/L		20.0	40	01/17/13 08:43	01/19/13 19:24	7439-96-5	
Molybdenum, Dissolved	8.0 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7439-98-7	
Nickel, Dissolved	2.7 ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7440-02-0	
Potassium, Dissolved	1830 ug/L		20.0	1	01/17/13 08:43	01/22/13 12:19	7440-09-7	
Selenium, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/22/13 12:19	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/17/13 08:43	01/18/13 19:50	7440-22-4	
Sodium, Dissolved	15600 ug/L		50.0	1	01/17/13 08:43	01/22/13 12:19	7440-23-5	
Thallium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/18/13 19:50	7440-28-0	
Vanadium, Dissolved	ND ug/L		0.10	1	01/17/13 08:43	01/22/13 12:19	7440-62-2	
Zinc, Dissolved	138 ug/L		5.0	1	01/17/13 08:43	01/22/13 12:19	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	74.7 ug/L		50.0	1	01/09/13 16:00	01/23/13 11:03	7429-90-5	
Antimony, Dissolved	0.035J ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-36-0	
Arsenic, Dissolved	12.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-38-2	
Barium, Dissolved	33.4 ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-39-3	
Beryllium, Dissolved	0.34J ug/L		0.50	1	01/09/13 16:00	01/23/13 11:03	7440-41-7	
Cadmium, Dissolved	0.12J ug/L		0.50	1	01/09/13 16:00	01/23/13 11:03	7440-43-9	
Chromium, Dissolved	0.76J ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-47-3	
Cobalt, Dissolved	3.6 ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-48-4	
Copper, Dissolved	1.0 ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-50-8	
Iron, Dissolved	18500 ug/L		50.0	1	01/09/13 16:00	01/23/13 11:03	7439-89-6	
Lead, Dissolved	0.93J ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7439-92-1	
Manganese, Dissolved	8510 ug/L		100	100	01/09/13 16:00	01/23/13 11:28	7439-96-5	
Molybdenum, Dissolved	9.9 ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7439-98-7	
Nickel, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-02-0	
Selenium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7782-49-2	
Silver, Dissolved	ND ug/L		0.50	1	01/09/13 16:00	01/23/13 11:03	7440-22-4	
Thallium, Dissolved	0.041J ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-28-0	
Vanadium, Dissolved	ND ug/L		1.0	1	01/09/13 16:00	01/23/13 11:03	7440-62-2	
Zinc, Dissolved	139 ug/L		10.0	1	01/09/13 16:00	01/23/13 11:03	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND ug/L		0.20	1	01/22/13 11:12	01/23/13 14:29	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/18/13 11:22	01/22/13 16:05	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND ug/L		0.20	1	01/10/13 09:50	01/10/13 15:49	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	1500 umhos/cm		10.0	1			01/15/13 12:57	
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	959 mg/L		6.0	1			01/15/13 14:00	

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ANALYTICAL RESULTS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Sample: MW-103_20130105	Lab ID: 60136463032	Collected: 01/05/13 10:35	Received: 01/08/13 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	0.75	PSU	0.010	1		01/15/13 14:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO ₃)	314	mg/L	20.0	1		01/09/13 12:10		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		01/09/13 12:10		
Alkalinity, Total as CaCO ₃	314	mg/L	20.0	1		01/09/13 12:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1260	mg/L	5.0	1		01/09/13 09:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	56.0	mg/L	5.0	1		01/09/13 09:41		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		01/09/13 15:56 18496-25-8		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	1.6	mg/L	1.0	1		01/12/13 02:31 16887-00-6		
Sulfate	651	mg/L	50.0	50		01/12/13 02:49 14808-79-8		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		01/15/13 14:53		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		01/09/13 12:10 57-12-5		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.7	mg/L	1.0	1		01/14/13 11:09 7440-44-0		

Appendix D
Laboratory QC Results

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MERP/7933	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1362082 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	ug/L	ND	0.20	01/24/13 09:26	

LABORATORY CONTROL SAMPLE: 1362083

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1362084 1362085

Parameter	Units	60136463001	MS	MSD	MS	MSD	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.									
Mercury	ug/L	0.62	5	5	4.7	6.1	81	110	85-115	27	30	M1	

MATRIX SPIKE SAMPLE: 1362086

Parameter	Units	60136463020		Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Conc.	Result	% Rec	Limits		
Mercury	ug/L	ND	5	5	4.6	91	85-115		

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MERP/7934	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1362087 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/23/13 13:42	

LABORATORY CONTROL SAMPLE: 1362088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE SAMPLE: 1362091

Parameter	Units	60136463032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1367135 1367136

Parameter	Units	60136463023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Mercury	ug/L	ND	5	5	3.9	5.2	78	105	85-115	30	30	M1

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MERP/7935	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1362093 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury, Dissolved	ug/L	ND	0.20	01/23/13 14:39	

LABORATORY CONTROL SAMPLE: 1362094

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury, Dissolved	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1362095 1362096

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60136463001	Spike										
Mercury, Dissolved	ug/L	ND	5	5	4.9	5.4	99	107	85-115	8	20		

MATRIX SPIKE SAMPLE: 1362097

Parameter	Units	60136463020	Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits		
Mercury, Dissolved	ug/L	ND	5	4.9	98	85-115		

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MERP/7936	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1362101 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/22/13 14:48	

LABORATORY CONTROL SAMPLE: 1362102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1362103 1362104

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.0	5.0	99	100	85-115	.8	20

MATRIX SPIKE SAMPLE: 1362105

Parameter	Units	60136463032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.1	102	85-115	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MERP/6993	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury, Potentially Dissolved
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1123989 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury, Dissolved	ug/L	ND	0.20	01/10/13 13:51	

LABORATORY CONTROL SAMPLE: 1123990

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury, Dissolved	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123991 1123992

Parameter	Units	60136463010	MS	MSD	MS	MSD	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike									
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.8	94	96	70-130	1	20		

MATRIX SPIKE SAMPLE: 1123993

Parameter	Units	60136463020		Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Conc.	Result	% Rec	Limits		
Mercury, Dissolved	ug/L	ND	5	5	4.6	4.6	91	70-130	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MERP/6994	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury, Potentially Dissolved
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1123994 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/10/13 15:00	

LABORATORY CONTROL SAMPLE: 1123995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123996 1123997

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.6	95	93	70-130	2	20

MATRIX SPIKE SAMPLE: 1123998

Parameter	Units	60136463030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.6	91	70-130	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/21105	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Potentially Dissolved Metals
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015		

METHOD BLANK: 1123822 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007,
60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014,
60136463015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	13.5J	100	01/17/13 11:55	
Magnesium, Dissolved	ug/L	ND	50.0	01/17/13 11:55	
Potassium, Dissolved	ug/L	ND	500	01/17/13 11:55	
Sodium, Dissolved	ug/L	ND	500	01/17/13 11:55	

LABORATORY CONTROL SAMPLE: 1123823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9910	99	85-115	
Magnesium, Dissolved	ug/L	10000	10200	102	85-115	
Potassium, Dissolved	ug/L	10000	9870	99	85-115	
Sodium, Dissolved	ug/L	10000	10400	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123824 1123825

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		60136463001	Spike Conc.	Spike Conc.	MS Result						
Calcium, Dissolved	ug/L	57600	10000	10000	67700	66500	100	88	70-130	2	20
Magnesium, Dissolved	ug/L	7560	10000	10000	17800	17900	103	103	70-130	0	20
Potassium, Dissolved	ug/L	5440	10000	10000	15400	15200	99	98	70-130	1	20
Sodium, Dissolved	ug/L	2730	10000	10000	13000	13100	103	103	70-130	0	20

MATRIX SPIKE SAMPLE: 1123826

Parameter	Units	60136463010	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	640000	10000	616000	-250	70-130	M1
Magnesium, Dissolved	ug/L	65200	10000	71400	62	70-130	M1
Potassium, Dissolved	ug/L	5370	10000	15300	100	70-130	
Sodium, Dissolved	ug/L	6720	10000	17100	104	70-130	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/21106	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Potentially Dissolved Metals
Associated Lab Samples:	60136463016, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1123827

Matrix: Water

Associated Lab Samples: 60136463016, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Calcium, Dissolved	ug/L	8.3J	100	01/17/13 09:55	
Magnesium, Dissolved	ug/L	ND	50.0	01/17/13 14:39	
Potassium, Dissolved	ug/L	ND	500	01/17/13 14:39	
Sodium, Dissolved	ug/L	ND	500	01/17/13 09:55	

LABORATORY CONTROL SAMPLE: 1123828

Parameter	Units	Spike	LCS	LCS	% Rec	Limits	Qualifiers
		Conc.	Result	% Rec			
Calcium, Dissolved	ug/L	10000	9640	96	85-115		
Magnesium, Dissolved	ug/L	10000	9560	96	85-115		
Potassium, Dissolved	ug/L	10000	9560	96	85-115		
Sodium, Dissolved	ug/L	10000	10000	100	85-115		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123829 1123830

Parameter	Units	MS	MSD	MS	MSD	% Rec	MSD	% Rec	Limits	RPD	RPD	Max
		60136463016	Spike	Spike	Result	Result	% Rec	% Rec	Qual			
Calcium, Dissolved	ug/L	283000	10000	10000	318000	292000	355	87	70-130	9	20	M1
Magnesium, Dissolved	ug/L	32600	10000	10000	42000	40000	94	73	70-130	5	20	
Potassium, Dissolved	ug/L	5610	10000	10000	16100	16000	105	103	70-130	1	20	
Sodium, Dissolved	ug/L	13200	10000	10000	25200	23700	120	106	70-130	6	20	

MATRIX SPIKE SAMPLE: 1123831

Parameter	Units	60136463025	Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits		
Calcium, Dissolved	ug/L	240000	10000	271000	309	70-130	M1	
Magnesium, Dissolved	ug/L	24200	10000	35900	117	70-130		
Potassium, Dissolved	ug/L	34300	10000	46400	120	70-130		
Sodium, Dissolved	ug/L	13500	10000	25500	120	70-130		

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/37187	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463016, 60136463017, 60136463020		

METHOD BLANK: 1362140 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463016, 60136463017, 60136463020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	01/22/13 11:04	
Antimony	ug/L	ND	0.50	01/22/13 11:04	
Arsenic	ug/L	ND	0.50	01/22/13 11:04	
Barium	ug/L	ND	0.30	01/22/13 11:04	
Beryllium	ug/L	ND	0.20	01/22/13 11:04	
Cadmium	ug/L	ND	0.080	01/22/13 11:04	
Calcium	ug/L	ND	20.0	01/22/13 11:04	
Chromium	ug/L	ND	0.50	01/22/13 11:04	
Cobalt	ug/L	ND	0.50	01/22/13 11:04	
Copper	ug/L	1.2	0.50	01/22/13 11:04	P8
Iron	ug/L	ND	50.0	01/22/13 11:04	
Lead	ug/L	ND	0.10	01/22/13 11:04	
Magnesium	ug/L	ND	5.0	01/22/13 11:04	
Manganese	ug/L	ND	0.50	01/22/13 11:04	
Molybdenum	ug/L	ND	0.50	01/22/13 11:04	
Nickel	ug/L	ND	0.50	01/22/13 11:04	
Potassium	ug/L	ND	20.0	01/22/13 11:04	
Selenium	ug/L	ND	0.50	01/22/13 11:04	
Silica	ug/L	ND	53.5	01/22/13 11:04	
Silver	ug/L	ND	0.50	01/22/13 11:04	
Sodium	ug/L	ND	50.0	01/22/13 11:04	
Thallium	ug/L	ND	0.10	01/22/13 11:04	
Total Hardness by 2340B	ug/L	ND	71.0	01/22/13 11:04	
Vanadium	ug/L	ND	0.10	01/22/13 11:04	
Zinc	ug/L	ND	5.0	01/22/13 11:04	

LABORATORY CONTROL SAMPLE: 1362141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	82.5	103	85-115	
Antimony	ug/L	80	77.4	97	85-115	
Arsenic	ug/L	80	77.6	97	85-115	
Barium	ug/L	80	77.7	97	85-115	
Beryllium	ug/L	80	76.1	95	85-115	
Cadmium	ug/L	80	76.9	96	85-115	
Calcium	ug/L	1000	948	95	85-115	
Chromium	ug/L	80	78.3	98	85-115	
Cobalt	ug/L	80	77.4	97	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE: 1362141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	80	81.0	101	85-115	
Iron	ug/L	1000	1100	110	85-115	
Lead	ug/L	80	77.8	97	85-115	
Magnesium	ug/L	1000	994	99	85-115	
Manganese	ug/L	80	79.2	99	85-115	
Molybdenum	ug/L	80	77.1	96	85-115	
Nickel	ug/L	80	77.5	97	85-115	
Potassium	ug/L	1000	959	96	85-115	
Selenium	ug/L	80	76.3	95	85-115	
Silica	ug/L	2140	2030	95	85-115	
Silver	ug/L	80	79.4	99	85-115	
Sodium	ug/L	1000	985	99	85-115	
Thallium	ug/L	80	78.8	99	85-115	
Total Hardness by 2340B	ug/L	6620	6460	98	85-115	
Vanadium	ug/L	80	77.2	96	85-115	
Zinc	ug/L	80	78.1	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1362142 1362143

Parameter	Units	MS Spike		MSD Spike		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	Max		
		60136463001	Conc.	Conc.	Result						RPD	RPD	Qual
Aluminum	ug/L	6960	80	80	12500	12300	6980	6650	70-130	2	20	M6	
Antimony	ug/L	0.51	80	80	68.6	68.6	85	85	70-130	0	20		
Arsenic	ug/L	11.1	80	80	90.2	89.7	99	98	70-130	.6	20		
Barium	ug/L	294	80	80	394	395	125	126	70-130	.2	20		
Beryllium	ug/L	0.91	80	80	75.2	76.4	93	94	70-130	2	20		
Cadmium	ug/L	2.6	80	80	82.5	81.6	100	99	70-130	1	20		
Calcium	ug/L	57800	1000	1000	58800	58600	90	80	70-130	.2	20		
Chromium	ug/L	7.9	80	80	94.0	92.2	108	105	70-130	2	20		
Cobalt	ug/L	11.0	80	80	90.5	90.5	99	99	70-130	.06	20		
Copper	ug/L	74.8	80	80	161	158	108	104	70-130	2	20		
Iron	ug/L	14000	1000	1000	17900	18200	382	412	70-130	2	20	M6	
Lead	ug/L	56.5	80	80	148	149	114	115	70-130	.9	20		
Magnesium	ug/L	9740	1000	1000	11500	11800	172	208	70-130	3	20	M6	
Manganese	ug/L	2170	80	80	2490	2530	396	452	70-130	2	20	M6	
Molybdenum	ug/L	2.7	80	80	79.6	79.8	96	96	70-130	.3	20		
Nickel	ug/L	22.2	80	80	102	105	100	103	70-130	3	20		
Potassium	ug/L	6680	1000	1000	9300	9200	262	252	70-130	1	20	M6	
Selenium	ug/L	2.5	80	80	77.0	76.7	93	93	70-130	.3	20		
Silica	ug/L	27500	2140	2140	47800	48900	950	1000	70-130	2	20	M1	
Silver	ug/L	1.1	80	80	60.0	64.1	74	79	70-130	7	20		
Sodium	ug/L	2950	1000	1000	13000	3920	1000	97	70-130	107	20	D6,M6	
Thallium	ug/L	0.15	80	80	82.0	81.8	102	102	70-130	.3	20		
Total Hardness by 2340B	ug/L	185000	6620	6620	194000	195000	141	160	70-130	.6	20	M1	
Vanadium	ug/L	15.1	80	80	106	104	113	112	70-130	1	20		
Zinc	ug/L	210	80	80	314	308	130	123	70-130	2	20		

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/37188	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1362144 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	01/18/13 22:15	
Antimony	ug/L	ND	0.50	01/18/13 22:15	
Arsenic	ug/L	ND	0.50	01/18/13 22:15	
Barium	ug/L	ND	0.30	01/18/13 22:15	
Beryllium	ug/L	ND	0.20	01/18/13 22:15	
Cadmium	ug/L	ND	0.080	01/18/13 22:15	
Calcium	ug/L	ND	20.0	01/18/13 22:15	
Chromium	ug/L	ND	0.50	01/18/13 22:15	
Cobalt	ug/L	ND	0.50	01/18/13 22:15	
Copper	ug/L	ND	0.50	01/18/13 22:15	
Iron	ug/L	ND	50.0	01/18/13 22:15	
Lead	ug/L	ND	0.10	01/18/13 22:15	
Magnesium	ug/L	ND	5.0	01/19/13 20:09	
Manganese	ug/L	ND	0.50	01/18/13 22:15	
Molybdenum	ug/L	ND	0.50	01/18/13 22:15	
Nickel	ug/L	ND	0.50	01/18/13 22:15	
Potassium	ug/L	ND	20.0	01/18/13 22:15	
Selenium	ug/L	ND	0.50	01/18/13 22:15	
Silica	ug/L	ND	53.5	01/18/13 22:15	
Silver	ug/L	ND	0.50	01/18/13 22:15	
Sodium	ug/L	ND	50.0	01/18/13 22:15	
Thallium	ug/L	ND	0.10	01/18/13 22:15	
Total Hardness by 2340B	ug/L	ND	71.0	01/18/13 22:15	
Vanadium	ug/L	ND	0.10	01/18/13 22:15	
Zinc	ug/L	ND	5.0	01/18/13 22:15	

LABORATORY CONTROL SAMPLE: 1362145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	80.9	101	85-115	
Antimony	ug/L	80	79.0	99	85-115	
Arsenic	ug/L	80	78.5	98	85-115	
Barium	ug/L	80	80.9	101	85-115	
Beryllium	ug/L	80	81.0	101	85-115	
Cadmium	ug/L	80	82.1	103	85-115	
Calcium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	80	81.7	102	85-115	
Cobalt	ug/L	80	81.3	102	85-115	
Copper	ug/L	80	85.3	107	85-115	
Iron	ug/L	1000	1020	102	85-115	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE: 1362145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	80	83.1	104	85-115	
Magnesium	ug/L	1000	1070	107	85-115	
Manganese	ug/L	80	82.5	103	85-115	
Molybdenum	ug/L	80	79.7	100	85-115	
Nickel	ug/L	80	84.5	106	85-115	
Potassium	ug/L	1000	989	99	85-115	
Selenium	ug/L	80	83.3	104	85-115	
Silica	ug/L	2140	2120	99	85-115	
Silver	ug/L	80	82.1	103	85-115	
Sodium	ug/L	1000	929	93	85-115	
Thallium	ug/L	80	85.4	107	85-115	
Total Hardness by 2340B	ug/L	6620	6920	105	85-115	
Vanadium	ug/L	80	82.6	103	85-115	
Zinc	ug/L	80	81.2	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364957 1364958

Parameter	Units	60136463022		MS Spike Conc.		MSD Spike Conc.		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		Result	Conc.	Result	Conc.	Result	Conc.								
Aluminum	ug/L	174	80	80	505	267	414	116	70-130	62	20	D6,M6			
Antimony	ug/L	ND	80	80	85.0	81.8	106	102	70-130	4	20				
Arsenic	ug/L	0.55	80	80	84.3	79.3	105	98	70-130	6	20				
Barium	ug/L	19.9	80	80	104	100	105	100	70-130	4	20				
Beryllium	ug/L	0.29	80	80	82.2	82.5	102	103	70-130	.3	20				
Cadmium	ug/L	10.3	80	80	95.0	90.8	106	101	70-130	5	20				
Calcium	ug/L	280000	1000	1000	259000	252000	-2110	-2820	70-130	3	20	E,M6			
Chromium	ug/L	ND	80	80	83.4	80.3	104	100	70-130	4	20				
Cobalt	ug/L	2.4	80	80	86.3	82.2	105	100	70-130	5	20				
Copper	ug/L	35.8	80	80	124	122	110	108	70-130	2	20				
Iron	ug/L	2310	1000	1000	3520	3380	122	107	70-130	4	20				
Lead	ug/L	3.8	80	80	88.0	85.4	105	102	70-130	3	20				
Magnesium	ug/L	21100	1000	1000	22900	22200	182	116	70-130	3	20	M6			
Manganese	ug/L	1800	80	80	1920	1800	142	-10	70-130	7	20	M6			
Molybdenum	ug/L	19.2	80	80	101	97.9	102	98	70-130	3	20				
Nickel	ug/L	3.6	80	80	92.2	85.5	111	102	70-130	7	20				
Potassium	ug/L	19900	1000	1000	21500	20700	153	75	70-130	4	20	M6			
Selenium	ug/L	ND	80	80	85.7	82.0	107	102	70-130	4	20				
Silica	ug/L	18400	2140	2140	19400	18700	49	17	70-130	4	20	M1			
Silver	ug/L	ND	80	80	76.4	74.5	95	93	70-130	2	20				
Sodium	ug/L	10500	1000	1000	12200	11800	169	125	70-130	4	20	M6			
Thallium	ug/L	ND	80	80	86.2	82.4	108	103	70-130	4	20				
Total Hardness by 2340B	ug/L	786000	6620	6620	741000	720000	-683	-992	70-130	3	20	M1			
Vanadium	ug/L	ND	80	80	84.4	80.9	105	101	70-130	4	20				
Zinc	ug/L	2550	80	80	2420	2330	-160	-279	70-130	4	20	M6			

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch: MPRP/37330 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60136463006, 60136463007, 60136463015, 60136463018, 60136463019

METHOD BLANK: 1367701 Matrix: Water

Associated Lab Samples: 60136463006, 60136463007, 60136463015, 60136463018, 60136463019

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Aluminum	ug/L	ND	4.0	01/23/13 16:14	
Antimony	ug/L	ND	0.50	01/23/13 16:14	
Arsenic	ug/L	ND	0.50	01/23/13 16:14	
Barium	ug/L	ND	0.30	01/23/13 16:14	B
Beryllium	ug/L	ND	0.20	01/23/13 16:14	
Cadmium	ug/L	ND	0.080	01/23/13 16:14	
Calcium	ug/L	ND	20.0	01/24/13 13:17	
Chromium	ug/L	ND	0.50	01/23/13 16:14	
Cobalt	ug/L	ND	0.50	01/23/13 16:14	
Copper	ug/L	ND	0.50	01/23/13 16:14	
Iron	ug/L	ND	50.0	01/23/13 16:14	
Lead	ug/L	ND	0.10	01/23/13 16:14	
Magnesium	ug/L	ND	5.0	01/23/13 16:14	
Manganese	ug/L	ND	0.50	01/23/13 16:14	
Molybdenum	ug/L	ND	0.50	01/23/13 16:14	
Nickel	ug/L	ND	0.50	01/23/13 16:14	
Potassium	ug/L	ND	20.0	01/23/13 16:14	
Selenium	ug/L	ND	0.50	01/23/13 16:14	
Silica	ug/L	ND	53.5	01/23/13 16:14	
Silver	ug/L	ND	0.50	01/23/13 16:14	
Sodium	ug/L	ND	50.0	01/23/13 16:14	
Thallium	ug/L	ND	0.10	01/23/13 16:14	
Total Hardness by 2340B	ug/L	ND	71.0	01/24/13 13:17	
Vanadium	ug/L	ND	0.10	01/23/13 16:14	
Zinc	ug/L	ND	5.0	01/23/13 16:14	B

LABORATORY CONTROL SAMPLE: 1367702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	82.6	103	85-115	
Antimony	ug/L	80	83.5	104	85-115	
Arsenic	ug/L	80	82.5	103	85-115	
Barium	ug/L	80	81.5	102	85-115	
Beryllium	ug/L	80	79.8	100	85-115	
Cadmium	ug/L	80	86.2	108	85-115	
Calcium	ug/L	1000	982	98	85-115	
Chromium	ug/L	80	82.4	103	85-115	
Cobalt	ug/L	80	81.0	101	85-115	
Copper	ug/L	80	84.8	106	85-115	
Iron	ug/L	1000	1100	110	85-115	
Lead	ug/L	80	82.4	103	85-115	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE: 1367702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	1000	1070	107	85-115	
Manganese	ug/L	80	87.2	109	85-115	
Molybdenum	ug/L	80	83.4	104	85-115	
Nickel	ug/L	80	82.4	103	85-115	
Potassium	ug/L	1000	1060	106	85-115	
Selenium	ug/L	80	77.3	97	85-115	
Silica	ug/L	2140	2210	103	85-115	
Silver	ug/L	80	85.8	107	85-115	
Sodium	ug/L	1000	1030	103	85-115	
Thallium	ug/L	80	86.6	108	85-115	
Total Hardness by 2340B	ug/L	6620	6840	103	85-115	
Vanadium	ug/L	80	83.5	104	85-115	
Zinc	ug/L	80	84.1	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1367703 1367704

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		60136463006	Spike Conc.	Spike Conc.	Result								
Aluminum	ug/L	7940	80	80	10800	10900	3560	3650	70-130	.6	20	M6	
Antimony	ug/L	ND	80	80	82.0	83.2	102	104	70-130	1	20		
Arsenic	ug/L	2.5	80	80	87.8	89.0	107	108	70-130	1	20		
Barium	ug/L	81.5	80	80	167	172	107	113	70-130	2	20		
Beryllium	ug/L	0.38	80	80	77.0	78.3	96	97	70-130	2	20		
Cadmium	ug/L	3.3	80	80	90.8	88.7	109	107	70-130	2	20		
Calcium	ug/L	282000	1000	1000	283000	286000	130	390	70-130	.9	20	E,M6	
Chromium	ug/L	13.1	80	80	97.9	99.2	106	108	70-130	1	20		
Cobalt	ug/L	4.2	80	80	87.5	86.7	104	103	70-130	.9	20		
Copper	ug/L	11.8	80	80	97.0	97.2	106	107	70-130	.2	20		
Iron	ug/L	9110	1000	1000	11400	11400	227	229	70-130	.2	20	M6	
Lead	ug/L	20.5	80	80	104	106	105	107	70-130	1	20		
Magnesium	ug/L	27900	1000	1000	29200	29300	127	140	70-130	.4	20	M6	
Manganese	ug/L	1130	80	80	1220	1230	116	133	70-130	1	20	M6	
Molybdenum	ug/L	4.2	80	80	87.9	89.0	105	106	70-130	1	20		
Nickel	ug/L	8.3	80	80	93.3	92.1	106	105	70-130	1	20		
Potassium	ug/L	4290	1000	1000	6370	6330	208	204	70-130	.5	20	M6	
Selenium	ug/L	0.60	80	80	80.8	78.3	100	97	70-130	3	20		
Silica	ug/L	49300	2140	2140	60500	59700	523	489	70-130	1	20	M1	
Silver	ug/L	ND	80	80	85.1	84.6	106	106	70-130	.6	20		
Sodium	ug/L	12100	1000	1000	12600	12800	44	63	70-130	1	20	M6	
Thallium	ug/L	0.16	80	80	84.7	85.1	106	106	70-130	.5	20		
Total Hardness by 2340B	ug/L	819000	6620	6620	827000	834000	128	234	70-130	.8	20	M1	
Vanadium	ug/L	12.6	80	80	100	102	109	112	70-130	2	20		
Zinc	ug/L	61.6	80	80	150	154	111	115	70-130	2	20		

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/37190	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1362148

Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	01/17/13 11:13	
Antimony, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Arsenic, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Barium, Dissolved	ug/L	ND	0.30	01/17/13 11:13	B
Beryllium, Dissolved	ug/L	ND	0.20	01/17/13 11:13	
Cadmium, Dissolved	ug/L	ND	0.080	01/17/13 11:13	
Calcium, Dissolved	ug/L	ND	20.0	01/17/13 11:13	
Chromium, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Cobalt, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Copper, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Iron, Dissolved	ug/L	ND	50.0	01/17/13 11:13	
Lead, Dissolved	ug/L	ND	0.10	01/17/13 11:13	
Magnesium, Dissolved	ug/L	ND	5.0	01/17/13 11:13	
Manganese, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Molybdenum, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Nickel, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Potassium, Dissolved	ug/L	ND	20.0	01/17/13 11:13	
Selenium, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Silver, Dissolved	ug/L	ND	0.50	01/17/13 11:13	
Sodium, Dissolved	ug/L	ND	50.0	01/17/13 11:13	
Thallium, Dissolved	ug/L	ND	0.10	01/17/13 11:13	
Vanadium, Dissolved	ug/L	ND	0.10	01/17/13 11:13	
Zinc, Dissolved	ug/L	ND	5.0	01/17/13 11:13	B

LABORATORY CONTROL SAMPLE: 1362149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	81.4	102	85-115	
Antimony, Dissolved	ug/L	80	80.2	100	85-115	
Arsenic, Dissolved	ug/L	80	80.6	101	85-115	
Barium, Dissolved	ug/L	80	80.0	100	85-115	
Beryllium, Dissolved	ug/L	80	81.7	102	85-115	
Cadmium, Dissolved	ug/L	80	81.0	101	85-115	
Calcium, Dissolved	ug/L	1000	1040	104	85-115	
Chromium, Dissolved	ug/L	80	80.4	100	85-115	
Cobalt, Dissolved	ug/L	80	79.6	99	85-115	
Copper, Dissolved	ug/L	80	80.7	101	85-115	
Iron, Dissolved	ug/L	1000	1050	105	85-115	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE: 1362149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	80	81.8	102	85-115	
Magnesium, Dissolved	ug/L	1000	1050	105	85-115	
Manganese, Dissolved	ug/L	80	80.8	101	85-115	
Molybdenum, Dissolved	ug/L	80	79.3	99	85-115	
Nickel, Dissolved	ug/L	80	80.6	101	85-115	
Potassium, Dissolved	ug/L	1000	975	97	85-115	
Selenium, Dissolved	ug/L	80	82.5	103	85-115	
Silver, Dissolved	ug/L	80	85.5	107	85-115	
Sodium, Dissolved	ug/L	1000	944	94	85-115	
Thallium, Dissolved	ug/L	80	84.0	105	85-115	
Vanadium, Dissolved	ug/L	80	81.6	102	85-115	
Zinc, Dissolved	ug/L	80	80.7	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364959 1364960

Parameter	Units	MS Spike		MSD Spike		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60136463002	Result	Conc.	Conc.								
Aluminum, Dissolved	ug/L	28.0	80	80	116	122	110	117	70-130	4	20		
Antimony, Dissolved	ug/L	ND	80	80	81.8	81.8	102	102	70-130	0	20		
Arsenic, Dissolved	ug/L	0.92	80	80	83.2	82.6	103	102	70-130	.6	20		
Barium, Dissolved	ug/L	44.9	80	80	122	124	97	99	70-130	1	20		
Beryllium, Dissolved	ug/L	ND	80	80	80.8	81.5	101	102	70-130	.9	20		
Cadmium, Dissolved	ug/L	0.21	80	80	82.2	80.2	102	100	70-130	2	20		
Calcium, Dissolved	ug/L	217000	1000	1000	217000	220000	-45	260	70-130	1	20	E,M1	
Chromium, Dissolved	ug/L	ND	80	80	79.3	80.2	99	100	70-130	1	20		
Cobalt, Dissolved	ug/L	1.3	80	80	79.2	80.1	97	99	70-130	1	20		
Copper, Dissolved	ug/L	1.2	80	80	77.0	78.4	95	96	70-130	2	20		
Iron, Dissolved	ug/L	1420	1000	1000	2520	2580	110	116	70-130	2	20		
Lead, Dissolved	ug/L	0.18	80	80	79.8	80.4	99	100	70-130	.8	20		
Magnesium, Dissolved	ug/L	21800	1000	1000	24500	25000	264	312	70-130	2	20	M1	
Manganese, Dissolved	ug/L	876	80	80	956	968	99	115	70-130	1	20		
Molybdenum, Dissolved	ug/L	10.1	80	80	89.6	91.0	99	101	70-130	2	20		
Nickel, Dissolved	ug/L	2.3	80	80	81.4	81.8	99	99	70-130	.5	20		
Potassium, Dissolved	ug/L	14200	1000	1000	15000	15200	89	108	70-130	1	20		
Selenium, Dissolved	ug/L	ND	80	80	84.4	84.6	105	106	70-130	.2	20		
Silver, Dissolved	ug/L	ND	80	80	78.2	79.8	98	100	70-130	2	20		
Sodium, Dissolved	ug/L	8140	1000	1000	9400	9530	126	139	70-130	1	20	M1	
Thallium, Dissolved	ug/L	ND	80	80	82.3	83.0	103	104	70-130	.8	20		
Vanadium, Dissolved	ug/L	0.27	80	80	80.4	82.7	100	103	70-130	3	20		
Zinc, Dissolved	ug/L	32.0	80	80	112	112	100	100	70-130	0	20		

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/37283	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463031, 60136463032		

METHOD BLANK: 1365620 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	01/22/13 11:41	
Antimony, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Arsenic, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Barium, Dissolved	ug/L	ND	0.30	01/22/13 11:41	
Beryllium, Dissolved	ug/L	ND	0.20	01/22/13 11:41	
Cadmium, Dissolved	ug/L	ND	0.080	01/22/13 11:41	
Calcium, Dissolved	ug/L	ND	20.0	01/22/13 11:41	
Chromium, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Cobalt, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Copper, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Iron, Dissolved	ug/L	ND	50.0	01/22/13 11:41	
Lead, Dissolved	ug/L	ND	0.10	01/22/13 11:41	
Magnesium, Dissolved	ug/L	ND	5.0	01/22/13 11:41	
Manganese, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Molybdenum, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Nickel, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Potassium, Dissolved	ug/L	ND	20.0	01/22/13 11:41	
Selenium, Dissolved	ug/L	ND	0.50	01/22/13 11:41	
Silver, Dissolved	ug/L	ND	0.50	01/18/13 16:48	
Sodium, Dissolved	ug/L	91.9	50.0	01/22/13 11:41	P8
Thallium, Dissolved	ug/L	ND	0.10	01/18/13 16:48	
Vanadium, Dissolved	ug/L	ND	0.10	01/22/13 11:41	
Zinc, Dissolved	ug/L	ND	5.0	01/22/13 11:41	

LABORATORY CONTROL SAMPLE: 1365621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	84.0	105	85-115	
Antimony, Dissolved	ug/L	80	81.9	102	85-115	
Arsenic, Dissolved	ug/L	80	83.4	104	85-115	
Barium, Dissolved	ug/L	80	82.1	103	85-115	
Beryllium, Dissolved	ug/L	80	86.3	108	85-115	
Cadmium, Dissolved	ug/L	80	81.6	102	85-115	
Calcium, Dissolved	ug/L	1000	964	96	85-115	
Chromium, Dissolved	ug/L	80	80.3	100	85-115	
Cobalt, Dissolved	ug/L	80	83.0	104	85-115	
Copper, Dissolved	ug/L	80	83.9	105	85-115	
Iron, Dissolved	ug/L	1000	999	100	85-115	
Lead, Dissolved	ug/L	80	81.4	102	85-115	
Magnesium, Dissolved	ug/L	1000	1040	104	85-115	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE: 1365621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	83.2	104	85-115	
Molybdenum, Dissolved	ug/L	80	81.9	102	85-115	
Nickel, Dissolved	ug/L	80	84.7	106	85-115	
Potassium, Dissolved	ug/L	1000	952	95	85-115	
Selenium, Dissolved	ug/L	80	83.4	104	85-115	
Silver, Dissolved	ug/L	80	82.6	103	85-115	
Sodium, Dissolved	ug/L	1000	1020	102	85-115	
Thallium, Dissolved	ug/L	80	81.8	102	85-115	
Vanadium, Dissolved	ug/L	80	81.6	102	85-115	
Zinc, Dissolved	ug/L	80	81.8	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365622 1365623

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60136463022	Result	Spike Conc.	MS Result						
Aluminum, Dissolved	ug/L	55.0	80	80	123	114	85	74	70-130	8	20
Antimony, Dissolved	ug/L	ND	80	80	80.5	80.8	100	101	70-130	.3	20
Arsenic, Dissolved	ug/L	ND	80	80	84.7	86.0	106	107	70-130	1	20
Barium, Dissolved	ug/L	20.7	80	80	98.9	102	98	101	70-130	3	20
Beryllium, Dissolved	ug/L	ND	80	80	85.8	84.1	107	105	70-130	2	20
Cadmium, Dissolved	ug/L	1.2	80	80	81.0	80.2	100	99	70-130	1	20
Calcium, Dissolved	ug/L	255000	1000	1000	262000	265000	620	940	70-130	1	20 E,M6
Chromium, Dissolved	ug/L	ND	80	80	78.2	77.8	98	97	70-130	.4	20
Cobalt, Dissolved	ug/L	2.6	80	80	84.5	84.2	102	102	70-130	.3	20
Copper, Dissolved	ug/L	3.3	80	80	85.0	84.2	102	101	70-130	.9	20
Iron, Dissolved	ug/L	255	1000	1000	1260	1250	100	99	70-130	1	20
Lead, Dissolved	ug/L	0.30	80	80	78.1	78.8	97	98	70-130	.9	20
Magnesium, Dissolved	ug/L	20000	1000	1000	22400	22600	244	266	70-130	1	20 M6
Manganese, Dissolved	ug/L	1890	80	80	1910	1920	22	35	70-130	.6	20 M6
Molybdenum, Dissolved	ug/L	19.6	80	80	102	102	102	102	70-130	0	20
Nickel, Dissolved	ug/L	3.8	80	80	86.8	85.4	104	102	70-130	2	20
Potassium, Dissolved	ug/L	19900	1000	1000	20600	20900	70	100	70-130	1	20
Selenium, Dissolved	ug/L	ND	80	80	83.8	82.8	105	103	70-130	1	20
Silver, Dissolved	ug/L	ND	80	80	72.0	75.6	90	94	70-130	5	20
Sodium, Dissolved	ug/L	11900	1000	1000	13000	13200	111	131	70-130	2	20 M6
Thallium, Dissolved	ug/L	ND	80	80	78.8	80.1	98	100	70-130	2	20
Vanadium, Dissolved	ug/L	ND	80	80	80.3	81.5	100	102	70-130	1	20
Zinc, Dissolved	ug/L	2020	80	80	2090	2070	90	65	70-130	1	20 M6

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/37376	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
Associated Lab Samples:	60136463030		

METHOD BLANK: 1369296 Matrix: Water

Associated Lab Samples: 60136463030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	01/28/13 22:50	
Antimony, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Arsenic, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Barium, Dissolved	ug/L	ND	0.30	01/28/13 22:50	
Beryllium, Dissolved	ug/L	ND	0.20	01/28/13 22:50	
Cadmium, Dissolved	ug/L	ND	0.080	01/28/13 22:50	
Calcium, Dissolved	ug/L	ND	20.0	01/28/13 22:50	
Chromium, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Cobalt, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Copper, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Iron, Dissolved	ug/L	ND	50.0	01/28/13 22:50	
Lead, Dissolved	ug/L	ND	0.10	01/28/13 22:50	
Magnesium, Dissolved	ug/L	ND	5.0	01/28/13 22:50	
Manganese, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Molybdenum, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Nickel, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Potassium, Dissolved	ug/L	ND	20.0	01/28/13 22:50	
Selenium, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Silver, Dissolved	ug/L	ND	0.50	01/28/13 22:50	
Sodium, Dissolved	ug/L	ND	50.0	01/28/13 22:50	
Thallium, Dissolved	ug/L	ND	0.10	01/28/13 22:50	
Vanadium, Dissolved	ug/L	ND	0.10	01/28/13 22:50	
Zinc, Dissolved	ug/L	ND	5.0	01/28/13 22:50	

LABORATORY CONTROL SAMPLE & LCSD: 1369297 1369305

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	80	87.2	82.7	109	103	85-115	5	20	
Antimony, Dissolved	ug/L	80	84.3	82.9	105	104	85-115	2	20	
Arsenic, Dissolved	ug/L	80	87.5	86.5	109	108	85-115	1	20	
Barium, Dissolved	ug/L	80	86.3	82.3	108	103	85-115	5	20	
Beryllium, Dissolved	ug/L	80	91.1	86.5	114	108	85-115	5	20	
Cadmium, Dissolved	ug/L	80	90.0	86.3	112	108	85-115	4	20	
Calcium, Dissolved	ug/L	1000	1140	1080	114	108	85-115	6	20	
Chromium, Dissolved	ug/L	80	87.6	84.0	110	105	85-115	4	20	
Cobalt, Dissolved	ug/L	80	90.7	87.6	113	109	85-115	3	20	
Copper, Dissolved	ug/L	80	91.3	89.5	114	112	85-115	2	20	
Iron, Dissolved	ug/L	1000	1090	1050	109	105	85-115	4	20	
Lead, Dissolved	ug/L	80	92.0	88.1	115	110	85-115	4	20	
Magnesium, Dissolved	ug/L	1000	1130	1080	113	108	85-115	4	20	
Manganese, Dissolved	ug/L	80	85.6	82.3	107	103	85-115	4	20	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE & LCSD:		1369297								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Molybdenum, Dissolved	ug/L	80	86.5	83.3	108	104	85-115	4	20	
Nickel, Dissolved	ug/L	80	90.9	88.0	114	110	85-115	3	20	
Potassium, Dissolved	ug/L	1000	1060	1030	106	103	85-115	3	20	
Selenium, Dissolved	ug/L	80	87.6	85.4	110	107	85-115	3	20	
Silver, Dissolved	ug/L	80	87.4	86.3	109	108	85-115	1	20	
Sodium, Dissolved	ug/L	1000	1120	1070	112	107	85-115	5	20	
Thallium, Dissolved	ug/L	80	90.0	86.4	112	108	85-115	4	20	
Vanadium, Dissolved	ug/L	80	85.7	82.2	107	103	85-115	4	20	
Zinc, Dissolved	ug/L	80	91.3	87.8	114	110	85-115	4	20	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/21107	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 Potentially Dissolved Metals
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015		

METHOD BLANK: 1123832

Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007,
60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014,
60136463015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	01/22/13 12:35	
Antimony, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Arsenic, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Barium, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Beryllium, Dissolved	ug/L	ND	0.50	01/22/13 12:35	
Cadmium, Dissolved	ug/L	ND	0.50	01/22/13 12:35	
Chromium, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Cobalt, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Copper, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Iron, Dissolved	ug/L	ND	50.0	01/22/13 12:35	
Lead, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Manganese, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Molybdenum, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Nickel, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Selenium, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Silver, Dissolved	ug/L	ND	0.50	01/22/13 12:35	
Thallium, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Vanadium, Dissolved	ug/L	ND	1.0	01/22/13 12:35	
Zinc, Dissolved	ug/L	2.1J	10.0	01/22/13 12:35	

LABORATORY CONTROL SAMPLE: 1123833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	1000	100	85-115	
Antimony, Dissolved	ug/L	40	41.3	103	85-115	
Arsenic, Dissolved	ug/L	40	41.5	104	85-115	
Barium, Dissolved	ug/L	40	40.6	101	85-115	
Beryllium, Dissolved	ug/L	40	41.7	104	85-115	
Cadmium, Dissolved	ug/L	40	39.9	100	85-115	
Chromium, Dissolved	ug/L	40	40.8	102	85-115	
Cobalt, Dissolved	ug/L	40	40.4	101	85-115	
Copper, Dissolved	ug/L	40	41.3	103	85-115	
Iron, Dissolved	ug/L	1000	1020	102	85-115	
Lead, Dissolved	ug/L	40	39.5	99	85-115	
Manganese, Dissolved	ug/L	40	40.6	102	85-115	
Molybdenum, Dissolved	ug/L	40	41.8	105	85-115	
Nickel, Dissolved	ug/L	40	41.4	103	85-115	
Selenium, Dissolved	ug/L	40	41.2	103	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE: 1123833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	20	19.7	98	85-115	
Thallium, Dissolved	ug/L	40	37.4	93	85-115	
Vanadium, Dissolved	ug/L	40	40.7	102	85-115	
Zinc, Dissolved	ug/L	100	107	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123834 1123835

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		60136463001	Result	Spike Conc.	MS Result						
Aluminum, Dissolved	ug/L	2210	1000	1000	3240	3130	103	92	70-130	4	20
Antimony, Dissolved	ug/L	0.16J	40	40	42.3	40.2	105	100	70-130	5	20
Arsenic, Dissolved	ug/L	2.7	40	40	44.0	42.5	103	100	70-130	3	20
Barium, Dissolved	ug/L	228	40	40	269	260	102	80	70-130	3	20
Beryllium, Dissolved	ug/L	0.62	40	40	41.8	39.9	103	98	70-130	5	20
Cadmium, Dissolved	ug/L	2.2	40	40	42.5	41.0	101	97	70-130	4	20
Chromium, Dissolved	ug/L	2.3	40	40	43.3	42.0	103	99	70-130	3	20
Cobalt, Dissolved	ug/L	4.4	40	40	44.4	42.6	100	96	70-130	4	20
Copper, Dissolved	ug/L	50.8	40	40	107	87.4	141	92	70-130	20	20 1e,M1
Iron, Dissolved	ug/L	3930	1000	1000	4920	4780	99	85	70-130	3	20
Lead, Dissolved	ug/L	28.8	40	40	73.9	68.2	113	98	70-130	8	20
Manganese, Dissolved	ug/L	1000	40	40	1050	1030	120	52	70-130	3	20 M1
Molybdenum, Dissolved	ug/L	0.59J	40	40	44.9	43.1	111	106	70-130	4	20
Nickel, Dissolved	ug/L	10.8	40	40	50.7	49.7	100	97	70-130	2	20
Selenium, Dissolved	ug/L	1.3	40	40	39.8	38.7	96	93	70-130	3	20
Silver, Dissolved	ug/L	0.60	20	20	20.3	19.6	99	95	70-130	4	20
Thallium, Dissolved	ug/L	0.077J	40	40	38.2	37.2	95	93	70-130	3	20
Vanadium, Dissolved	ug/L	4.4	40	40	45.2	44.1	102	99	70-130	3	20
Zinc, Dissolved	ug/L	134	100	100	245	230	111	96	70-130	6	20

MATRIX SPIKE SAMPLE: 1123836

Parameter	Units	60136463010		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
		Result	Result					
Aluminum, Dissolved	ug/L		15200	1000	15900	66	70-130	M1
Antimony, Dissolved	ug/L		1.2	40	38.7	94	70-130	
Arsenic, Dissolved	ug/L		779	40	809	75	70-130	
Barium, Dissolved	ug/L		9.3	40	43.4	85	70-130	
Beryllium, Dissolved	ug/L		2.1	40	32.5	76	70-130	
Cadmium, Dissolved	ug/L		172	40	205	83	70-130	
Chromium, Dissolved	ug/L		12.8	40	50.5	94	70-130	
Cobalt, Dissolved	ug/L		26.4	40	62.8	91	70-130	
Copper, Dissolved	ug/L		560	40	589	71	70-130	
Iron, Dissolved	ug/L	95400	1000		95600	24	70-130	M1
Lead, Dissolved	ug/L		4920	40	5000	195	70-130	M6
Manganese, Dissolved	ug/L		8650	40	8670	40	70-130	M6
Molybdenum, Dissolved	ug/L		5.6	40	50.0	111	70-130	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

MATRIX SPIKE SAMPLE: 1123836

Parameter	Units	60136463010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel, Dissolved	ug/L	50.6	40	85.6	87	70-130	
Selenium, Dissolved	ug/L	4.5	40	41.0	91	70-130	
Silver, Dissolved	ug/L	ND	20	17.7	88	70-130	
Thallium, Dissolved	ug/L	0.85J	40	38.1	93	70-130	
Vanadium, Dissolved	ug/L	25.2	40	64.5	98	70-130	
Zinc, Dissolved	ug/L	67000	100	66500	-520	70-130 M6	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MPRP/21108	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 Potentially Dissolved Metals
Associated Lab Samples:	60136463016, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1123841

Matrix: Water

Associated Lab Samples: 60136463016, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	01/23/13 09:16	
Antimony, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Arsenic, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Barium, Dissolved	ug/L	0.11J	1.0	01/23/13 09:16	B
Beryllium, Dissolved	ug/L	ND	0.50	01/23/13 09:16	
Cadmium, Dissolved	ug/L	ND	0.50	01/23/13 09:16	
Chromium, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Cobalt, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Copper, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Iron, Dissolved	ug/L	ND	50.0	01/23/13 09:16	
Lead, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Manganese, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Molybdenum, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Nickel, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Selenium, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Silver, Dissolved	ug/L	ND	0.50	01/23/13 09:16	
Thallium, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Vanadium, Dissolved	ug/L	ND	1.0	01/23/13 09:16	
Zinc, Dissolved	ug/L	1.7J	10.0	01/23/13 09:16	B

LABORATORY CONTROL SAMPLE: 1123842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	1040	104	85-115	
Antimony, Dissolved	ug/L	40	42.5	106	85-115	
Arsenic, Dissolved	ug/L	40	42.1	105	85-115	
Barium, Dissolved	ug/L	40	40.2	100	85-115	
Beryllium, Dissolved	ug/L	40	42.5	106	85-115	
Cadmium, Dissolved	ug/L	40	42.2	105	85-115	
Chromium, Dissolved	ug/L	40	41.2	103	85-115	
Cobalt, Dissolved	ug/L	40	40.0	100	85-115	
Copper, Dissolved	ug/L	40	41.1	103	85-115	
Iron, Dissolved	ug/L	1000	1010	101	85-115	
Lead, Dissolved	ug/L	40	40.0	100	85-115	
Manganese, Dissolved	ug/L	40	40.6	101	85-115	
Molybdenum, Dissolved	ug/L	40	41.5	104	85-115	
Nickel, Dissolved	ug/L	40	40.2	101	85-115	
Selenium, Dissolved	ug/L	40	44.1	110	85-115	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

LABORATORY CONTROL SAMPLE: 1123842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	20	19.9	99	85-115	
Thallium, Dissolved	ug/L	40	39.1	98	85-115	
Vanadium, Dissolved	ug/L	40	40.4	101	85-115	
Zinc, Dissolved	ug/L	100	113	113	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1123843 1123844

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		60136463016	Result	Spike Conc.	MS Result						
Aluminum, Dissolved	ug/L	617	1000	1000	1570	1590	96	98	70-130	1	20
Antimony, Dissolved	ug/L	0.17J	40	40	40.9	41.2	102	103	70-130	1	20
Arsenic, Dissolved	ug/L	91.0	40	40	131	133	100	105	70-130	1	20
Barium, Dissolved	ug/L	24.3	40	40	63.2	63.6	97	98	70-130	1	20
Beryllium, Dissolved	ug/L	0.22J	40	40	36.1	36.4	90	91	70-130	1	20
Cadmium, Dissolved	ug/L	1.6	40	40	40.4	40.5	97	97	70-130	0	20
Chromium, Dissolved	ug/L	2.3	40	40	41.8	42.7	99	101	70-130	2	20
Cobalt, Dissolved	ug/L	1.0	40	40	39.6	39.6	97	96	70-130	0	20
Copper, Dissolved	ug/L	62.1	40	40	100	102	96	99	70-130	1	20
Iron, Dissolved	ug/L	30500	1000	1000	31800	32200	138	179	70-130	1	20 M1
Lead, Dissolved	ug/L	539	40	40	581	583	103	109	70-130	0	20
Manganese, Dissolved	ug/L	1980	40	40	2040	2050	150	192	70-130	1	20 M1
Molybdenum, Dissolved	ug/L	11.0	40	40	55.9	56.2	112	113	70-130	1	20
Nickel, Dissolved	ug/L	ND	40	40	37.7	38.1	94	95	70-130	1	20
Selenium, Dissolved	ug/L	0.46J	40	40	40.1	39.0	99	96	70-130	3	20
Silver, Dissolved	ug/L	0.16J	20	20	18.9	18.8	94	93	70-130	0	20
Thallium, Dissolved	ug/L	0.074J	40	40	34.5	34.6	86	86	70-130	0	20
Vanadium, Dissolved	ug/L	1.2	40	40	42.1	42.2	102	103	70-130	0	20
Zinc, Dissolved	ug/L	251	100	100	342	347	91	96	70-130	1	20

MATRIX SPIKE SAMPLE: 1123845

Parameter	Units	60136463025		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
		Result	Conc.					
Aluminum, Dissolved	ug/L	108	1000	1000	1090	98	70-130	
Antimony, Dissolved	ug/L	0.21J	40	40	40.9	102	70-130	
Arsenic, Dissolved	ug/L	0.50J	40	40	40.1	99	70-130	
Barium, Dissolved	ug/L	20.3	40	40	56.7	91	70-130	
Beryllium, Dissolved	ug/L	0.19J	40	40	37.8	94	70-130	
Cadmium, Dissolved	ug/L	7.3	40	40	45.6	96	70-130	
Chromium, Dissolved	ug/L	0.43J	40	40	39.6	98	70-130	
Cobalt, Dissolved	ug/L	2.2	40	40	39.4	93	70-130	
Copper, Dissolved	ug/L	20.9	40	40	55.5	86	70-130	
Iron, Dissolved	ug/L	1600	1000	1000	2490	89	70-130	
Lead, Dissolved	ug/L	2.6	40	40	41.7	98	70-130	
Manganese, Dissolved	ug/L	1770	40	40	1700	-178	70-130 M1	
Molybdenum, Dissolved	ug/L	19.3	40	40	62.3	107	70-130	

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

MATRIX SPIKE SAMPLE: 1123845

Parameter	Units	60136463025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel, Dissolved	ug/L	1.9	40	38.4	91	70-130	
Selenium, Dissolved	ug/L	ND	40	38.1	95	70-130	
Silver, Dissolved	ug/L	ND	20	18.6	93	70-130	
Thallium, Dissolved	ug/L	0.062J	40	38.9	97	70-130	
Vanadium, Dissolved	ug/L	ND	40	39.6	99	70-130	
Zinc, Dissolved	ug/L	2010	100	1990	-24	70-130 M1	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MT/11139	Analysis Method:	SM 2510B
QC Batch Method:	SM 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1363956 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	01/14/13 11:17	

LABORATORY CONTROL SAMPLE: 1363957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	978	98	90-110	

SAMPLE DUPLICATE: 1363958

Parameter	Units	60136463002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1120	1150	3	20	

SAMPLE DUPLICATE: 1363959

Parameter	Units	60136463010 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	2500	2500	.08	20	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	MT/11140	Analysis Method:	SM 2510B
QC Batch Method:	SM 2510B	Analysis Description:	2510B Specific Conductance
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1363960 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	01/15/13 12:09	

LABORATORY CONTROL SAMPLE: 1363961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	944	94	90-110	

SAMPLE DUPLICATE: 1363962

Parameter	Units	10217187002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	415	434	4	20	

SAMPLE DUPLICATE: 1363963

Parameter	Units	60136463023 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1220	1130	7	20	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WET/39172	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017		

METHOD BLANK: 1123366 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	20.0	01/09/13 08:27	
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	01/09/13 08:27	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	01/09/13 08:27	

LABORATORY CONTROL SAMPLE: 1123367

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Alkalinity, Total as CaCO ₃	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 1123368

Parameter	Units	60136486001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO ₃	mg/L	813	784	4	10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	813	784	4	10	

SAMPLE DUPLICATE: 1123369

Parameter	Units	60136463010	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO ₃	mg/L	171	165	3	10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	171	165	3	10	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WET/39173	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
Associated Lab Samples:	60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1123370 Matrix: Water

Associated Lab Samples: 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	20.0	01/09/13 10:41	
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	01/09/13 10:41	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	01/09/13 10:41	

LABORATORY CONTROL SAMPLE: 1123371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	500	506	101	90-110	

SAMPLE DUPLICATE: 1123372

Parameter	Units	60136463018 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO ₃	mg/L	ND	ND		10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1123373

Parameter	Units	60136463027 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO ₃)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO ₃	mg/L	ND	ND		10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	ND		10	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WET/39178	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1123434 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	01/09/13 09:50	

SAMPLE DUPLICATE: 1123435

Parameter	Units	60136463001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	210	210	0	17	

SAMPLE DUPLICATE: 1123436

Parameter	Units	60136463011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2010	2020	1	17	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WET/39179	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1123438 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	01/09/13 09:55	

SAMPLE DUPLICATE: 1123439

Parameter	Units	60136463021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1050	1070	2	17	

SAMPLE DUPLICATE: 1123440

Parameter	Units	60136463031 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1120	1130	1	17	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WET/39176	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1123423 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/09/13 09:33	

SAMPLE DUPLICATE: 1123424

Parameter	Units	60136463001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	854	854	0	25	

SAMPLE DUPLICATE: 1123425

Parameter	Units	60136463011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	45.0	50.0	11	25	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WET/39177	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK:	1123430	Matrix:	Water
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Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032
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Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/09/13 09:38	

SAMPLE DUPLICATE: 1123431

Parameter	Units	60136463021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	20.0	21.0	5	25	

SAMPLE DUPLICATE: 1123432

Parameter	Units	60136463031 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	25.0	21.0	17	25	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WET/39180	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015		

METHOD BLANK: 1123492 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Sulfide, Total	mg/L	ND	0.050	01/09/13 15:52	

LABORATORY CONTROL SAMPLE: 1123493

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1123494

Parameter	Units	60136463001	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	
Sulfide, Total	mg/L	ND	.5	0.37	74	75-125	M1

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch: WET/39181 Analysis Method: SM 4500-S-2 D

QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total

Associated Lab Samples: 60136463016, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

METHOD BLANK: 1123497

Matrix: Water

Associated Lab Samples: 60136463016, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Sulfide, Total	mg/L	ND	0.050	01/09/13 15:54	

LABORATORY CONTROL SAMPLE: 1123498

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1123499

Parameter	Units	60136463016	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec		
Sulfide, Total	mg/L	ND	.5	ND	0	75-125	M1

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23159	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016		

METHOD BLANK: 1124184 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Chloride	mg/L	ND	1.0	01/10/13 12:15	
Sulfate	mg/L	ND	1.0	01/10/13 12:15	

LABORATORY CONTROL SAMPLE: 1124185

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE SAMPLE: 1124186

Parameter	Units	60136463001	Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	Limits	
Chloride	mg/L	4.9	5	9.5	91	64-118		
Sulfate	mg/L	60.2	25	81.2	84	61-119		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1124187 1124188

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60136463002	Spike	Spike	Result	Result	Result	% Rec	% Rec	RPD	RPD	RPD	Qual
Chloride	mg/L	11.4	5	5	16.2	16.1	96	95	64-118	0	12		
Sulfate	mg/L	554	250	250	760	762	82	83	61-119	0	10		

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23169	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60136463009, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1124867 Matrix: Water

Associated Lab Samples: 60136463009, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Chloride	mg/L	ND	1.0	01/11/13 12:49	
Sulfate	mg/L	ND	1.0	01/11/13 12:49	

LABORATORY CONTROL SAMPLE: 1124868

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE SAMPLE: 1124869

Parameter	Units	60136463009	Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	Limits	
Chloride	mg/L	1.9	5	6.2	87	64-118		
Sulfate	mg/L	2940	1000	3340	41	61-119 M6		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1124870 1124871

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60136463017	Spike	Spike	Result	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	5	5	5.4	5.4	88	89	89	64-118	1	12	
Sulfate	mg/L	635	250	250	861	842	90	82	82	61-119	2	10	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23192	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	60136463027		

METHOD BLANK: 1125945 Matrix: Water

Associated Lab Samples: 60136463027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.49J	1.0	01/14/13 22:04	B
Sulfate	mg/L	ND	1.0	01/14/13 22:04	

METHOD BLANK: 1126202 Matrix: Water

Associated Lab Samples: 60136463027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	0.50J	1.0	01/15/13 16:21	B
Sulfate	mg/L	ND	1.0	01/15/13 16:21	

LABORATORY CONTROL SAMPLE: 1125946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.1	103	90-110	

LABORATORY CONTROL SAMPLE: 1126203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE SAMPLE: 1125947

Parameter	Units	60136763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	841	250	1070	90	64-118	
Sulfate	mg/L	561	250	791	92	61-119	

MATRIX SPIKE SAMPLE: 1125948

Parameter	Units	60136763002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1020	500	1440	84	64-118	
Sulfate	mg/L	169	500	611	88	61-119	

Date: 02/12/2013 05:51 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch: WETA/23195 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007,
60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014,
60136463015, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021

METHOD BLANK: 1125973 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007,
60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014,
60136463015, 60136463017, 60136463018, 60136463019, 60136463020, 60136463021

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	0.10	01/15/13 14:11	

LABORATORY CONTROL SAMPLE: 1125974

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Nitrogen, NO ₂ plus NO ₃	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1125975

Parameter	Units	60136463001	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	2	2.1	102	90-110	

MATRIX SPIKE SAMPLE: 1125976

Parameter	Units	60136463002	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	2	1.9	94	90-110	

SAMPLE DUPLICATE: 1125977

Parameter	Units	60136463003	Dup	Max	Qualifiers
		Result	Result	RPD	
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	ND	13	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23196	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 60136463016, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

METHOD BLANK: 1125978 Matrix: Water

Associated Lab Samples: 60136463016, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027,
60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	0.10	01/15/13 14:36	

LABORATORY CONTROL SAMPLE: 1125979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1125980

Parameter	Units	60136463022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	2	1.8	90	90-110	

MATRIX SPIKE SAMPLE: 1125981

Parameter	Units	60136463023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	2	1.5	77	90-110	M1

SAMPLE DUPLICATE: 1125982

Parameter	Units	60136463024 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	ND		13	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23132	Analysis Method:	SM 4500-CN-E
QC Batch Method:	SM 4500-CN-E	Analysis Description:	4500CNE Cyanide, Total
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018		

METHOD BLANK: 1123380 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Cyanide	mg/L	ND	0.0050	01/09/13 11:19	

LABORATORY CONTROL SAMPLE: 1123381

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Cyanide	mg/L	.1	0.094	94	69-126	

MATRIX SPIKE SAMPLE: 1123382

Parameter	Units	60136474001	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	
Cyanide	mg/L	0.0066	.1	0.10	94	41-136	

SAMPLE DUPLICATE: 1123383

Parameter	Units	60136383001	Dup	Max	Qualifiers
		Result	Result	RPD	
Cyanide	mg/L	0.092	0.066	32	26 D6

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23133	Analysis Method:	SM 4500-CN-E
QC Batch Method:	SM 4500-CN-E	Analysis Description:	4500CNE Cyanide, Total

Associated Lab Samples: 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025,
60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

METHOD BLANK: 1123384 Matrix: Water

Associated Lab Samples: 60136463019, 60136463020, 60136463021, 60136463022, 60136463023, 60136463024, 60136463025,
60136463026, 60136463027, 60136463028, 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	01/09/13 12:58	

LABORATORY CONTROL SAMPLE: 1123385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	101	69-126	

MATRIX SPIKE SAMPLE: 1123386

Parameter	Units	60136463019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.0092	.1	0.097	88	41-136	

SAMPLE DUPLICATE: 1123387

Parameter	Units	60136463020 Result	Dup Result	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND	26	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23135	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020		

METHOD BLANK: 1123442 Matrix: Water

Associated Lab Samples: 60136463001, 60136463002, 60136463003, 60136463004, 60136463005, 60136463006, 60136463007, 60136463008, 60136463009, 60136463010, 60136463011, 60136463012, 60136463013, 60136463014, 60136463015, 60136463016, 60136463017, 60136463018, 60136463019, 60136463020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	01/09/13 10:11	

LABORATORY CONTROL SAMPLE: 1123443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	95	80-120	

MATRIX SPIKE SAMPLE: 1123444

Parameter	Units	60136463001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.6	5	6.3	93	80-120	

SAMPLE DUPLICATE: 1123445

Parameter	Units	60136463002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	3.2	3.3	3	25	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23156	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027		

METHOD BLANK: 1124144 Matrix: Water

Associated Lab Samples: 60136463021, 60136463022, 60136463023, 60136463024, 60136463025, 60136463026, 60136463027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	01/10/13 11:33	

LABORATORY CONTROL SAMPLE: 1124145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	94	80-120	

MATRIX SPIKE SAMPLE: 1124146

Parameter	Units	60136530002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	4.8	95	80-120	

SAMPLE DUPLICATE: 1124147

Parameter	Units	60136514001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	0.46J	ND		25	

QUALITY CONTROL DATA

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

QC Batch:	WETA/23166	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	60136463028, 60136463029, 60136463030, 60136463031, 60136463032		

METHOD BLANK: 1124735 Matrix: Water

Associated Lab Samples: 60136463028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	01/11/13 12:40	

METHOD BLANK: 1126250 Matrix: Water

Associated Lab Samples: 60136463029, 60136463030, 60136463031, 60136463032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	01/14/13 09:58	

LABORATORY CONTROL SAMPLE: 1124736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	95	80-120	

LABORATORY CONTROL SAMPLE: 1126251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	93	80-120	

MATRIX SPIKE SAMPLE: 1124737

Parameter	Units	60136657002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.7	5	8.0	105	80-120	

SAMPLE DUPLICATE: 1124738

Parameter	Units	60136626001 Result	Dup Result	Max RPD	Qualifiers
Total Organic Carbon	mg/L	0.93J	ND	25	

QUALIFIERS

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1e Post Digestion Spike Performed - 89.9% Recovery

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463001	GW-1_20130103	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463002	GW-4_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463003	MW-101_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463004	MW-102_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463005	GW-7_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463006	MW-204_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463007	CHV-101_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463008	GW-6_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463009	EB-2_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463010	GW-5_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463011	EB-1_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463012	MW-4S_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463013	MW-4D_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463014	MW-1S_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463015	MW-1D_20130104	EPA 200.7	MPRP/21105	EPA 200.7	ICP/17066
60136463016	P13-103_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463017	DR-3_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463018	FB_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463019	P13-102_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463020	DR-4_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463021	DR-8_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463022	DR-5_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463023	MW-3D_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463024	GW-3_20130104	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463025	DR-6_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463026	MW-2D_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463027	MW-5S_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463028	MW-5D_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463029	MW-6S_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463030	MW-6D_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463031	MW-104_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463032	MW-103_20130105	EPA 200.7	MPRP/21106	EPA 200.7	ICP/17067
60136463001	GW-1_20130103	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463002	GW-4_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463003	MW-101_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463004	MW-102_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463005	GW-7_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463006	MW-204_20130104	EPA 200.8	MPRP/37330	EPA 200.8	ICPM/15191
60136463007	CHV-101_20130104	EPA 200.8	MPRP/37330	EPA 200.8	ICPM/15191
60136463008	GW-6_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463009	EB-2_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463010	GW-5_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463011	EB-1_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463012	MW-4S_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463013	MW-4D_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463014	MW-1S_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463015	MW-1D_20130104	EPA 200.8	MPRP/37330	EPA 200.8	ICPM/15191
60136463016	P13-103_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463017	DR-3_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463018	FB_20130104	EPA 200.8	MPRP/37330	EPA 200.8	ICPM/15191
60136463019	P13-102_20130104	EPA 200.8	MPRP/37330	EPA 200.8	ICPM/15191
60136463020	DR-4_20130104	EPA 200.8	MPRP/37187	EPA 200.8	ICPM/15164
60136463021	DR-8_20130104	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463022	DR-5_20130104	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463023	MW-3D_20130104	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463024	GW-3_20130104	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463025	DR-6_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463026	MW-2D_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463027	MW-5S_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463028	MW-5D_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463029	MW-6S_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463030	MW-6D_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463031	MW-104_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463032	MW-103_20130105	EPA 200.8	MPRP/37188	EPA 200.8	ICPM/15154
60136463001	GW-1_20130103	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463002	GW-4_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463003	MW-101_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463004	MW-102_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463005	GW-7_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463006	MW-204_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463007	CHV-101_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463008	GW-6_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463009	EB-2_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463010	GW-5_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463011	EB-1_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463012	MW-4S_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463013	MW-4D_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463014	MW-1S_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463015	MW-1D_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463016	P13-103_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463017	DR-3_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463018	FB_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463019	P13-102_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463020	DR-4_20130104	EPA 200.8	MPRP/37190	EPA 200.8	ICPM/15153
60136463021	DR-8_20130104	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463022	DR-5_20130104	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463023	MW-3D_20130104	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463024	GW-3_20130104	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463025	DR-6_20130105	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463026	MW-2D_20130105	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463027	MW-5S_20130105	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463028	MW-5D_20130105	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463029	MW-6S_20130105	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463030	MW-6D_20130105	EPA 200.8	MPRP/37376	EPA 200.8	ICPM/15218
60136463031	MW-104_20130105	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463032	MW-103_20130105	EPA 200.8	MPRP/37283	EPA 200.8	ICPM/15165
60136463001	GW-1_20130103	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463002	GW-4_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463003	MW-101_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463004	MW-102_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463005	GW-7_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463006	MW-204_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463007	CHV-101_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463008	GW-6_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463009	EB-2_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463010	GW-5_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463011	EB-1_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463012	MW-4S_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463013	MW-4D_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463014	MW-1S_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463015	MW-1D_20130104	EPA 200.8	MPRP/21107	EPA 200.8	ICPM/1960
60136463016	P13-103_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463017	DR-3_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463018	FB_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463019	P13-102_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463020	DR-4_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463021	DR-8_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463022	DR-5_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463023	MW-3D_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463024	GW-3_20130104	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463025	DR-6_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463026	MW-2D_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463027	MW-5S_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463028	MW-5D_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463029	MW-6S_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463030	MW-6D_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463031	MW-104_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463032	MW-103_20130105	EPA 200.8	MPRP/21108	EPA 200.8	ICPM/1961
60136463001	GW-1_20130103	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463002	GW-4_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463003	MW-101_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463004	MW-102_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463005	GW-7_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463006	MW-204_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463007	CHV-101_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463008	GW-6_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463009	EB-2_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463010	GW-5_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463011	EB-1_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463012	MW-4S_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463013	MW-4D_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463014	MW-1S_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463015	MW-1D_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463016	P13-103_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463017	DR-3_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463018	FB_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463019	P13-102_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463020	DR-4_20130104	EPA 245.1	MERP/7933	EPA 245.1	MERC/8958
60136463021	DR-8_20130104	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463022	DR-5_20130104	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463023	MW-3D_20130104	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463024	GW-3_20130104	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463025	DR-6_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463026	MW-2D_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463027	MW-5S_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463028	MW-5D_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463029	MW-6S_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463030	MW-6D_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463031	MW-104_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463032	MW-103_20130105	EPA 245.1	MERP/7934	EPA 245.1	MERC/8957
60136463001	GW-1_20130103	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463002	GW-4_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463003	MW-101_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463004	MW-102_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463005	GW-7_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463006	MW-204_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463007	CHV-101_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463008	GW-6_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463009	EB-2_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463010	GW-5_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463011	EB-1_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463012	MW-4S_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463013	MW-4D_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463014	MW-1S_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463015	MW-1D_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463016	P13-103_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463017	DR-3_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463018	FB_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463019	P13-102_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463020	DR-4_20130104	EPA 245.1	MERP/7935	EPA 245.1	MERC/8951
60136463021	DR-8_20130104	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463022	DR-5_20130104	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463023	MW-3D_20130104	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463024	GW-3_20130104	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463025	DR-6_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463026	MW-2D_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463027	MW-5S_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463028	MW-5D_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463029	MW-6S_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463030	MW-6D_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463031	MW-104_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463032	MW-103_20130105	EPA 245.1	MERP/7936	EPA 245.1	MERC/8952
60136463001	GW-1_20130103	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463002	GW-4_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463003	MW-101_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463004	MW-102_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463005	GW-7_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463006	MW-204_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463007	CHV-101_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463008	GW-6_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463009	EB-2_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463010	GW-5_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463011	EB-1_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463012	MW-4S_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463013	MW-4D_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463014	MW-1S_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463015	MW-1D_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463016	P13-103_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463017	DR-3_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463018	FB_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463019	P13-102_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463020	DR-4_20130104	EPA 245.1	MERP/6993	EPA 245.1	MERC/6954
60136463021	DR-8_20130104	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463022	DR-5_20130104	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463023	MW-3D_20130104	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463024	GW-3_20130104	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463025	DR-6_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463026	MW-2D_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463027	MW-5S_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463028	MW-5D_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463029	MW-6S_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463030	MW-6D_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463031	MW-104_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463032	MW-103_20130105	EPA 245.1	MERP/6994	EPA 245.1	MERC/6955
60136463001	GW-1_20130103	SM 2510B	MT/11139		
60136463002	GW-4_20130104	SM 2510B	MT/11139		
60136463003	MW-101_20130104	SM 2510B	MT/11139		
60136463004	MW-102_20130104	SM 2510B	MT/11139		
60136463005	GW-7_20130104	SM 2510B	MT/11139		
60136463006	MW-204_20130104	SM 2510B	MT/11139		
60136463007	CHV-101_20130104	SM 2510B	MT/11139		
60136463008	GW-6_20130104	SM 2510B	MT/11139		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463009	EB-2_20130104	SM 2510B	MT/11139		
60136463010	GW-5_20130104	SM 2510B	MT/11139		
60136463011	EB-1_20130104	SM 2510B	MT/11139		
60136463012	MW-4S_20130104	SM 2510B	MT/11139		
60136463013	MW-4D_20130104	SM 2510B	MT/11139		
60136463014	MW-1S_20130104	SM 2510B	MT/11139		
60136463015	MW-1D_20130104	SM 2510B	MT/11139		
60136463016	P13-103_20130104	SM 2510B	MT/11139		
60136463017	DR-3_20130104	SM 2510B	MT/11139		
60136463018	FB_20130104	SM 2510B	MT/11139		
60136463019	P13-102_20130104	SM 2510B	MT/11139		
60136463020	DR-4_20130104	SM 2510B	MT/11139		
60136463021	DR-8_20130104	SM 2510B	MT/11140		
60136463022	DR-5_20130104	SM 2510B	MT/11140		
60136463023	MW-3D_20130104	SM 2510B	MT/11140		
60136463024	GW-3_20130104	SM 2510B	MT/11140		
60136463025	DR-6_20130105	SM 2510B	MT/11140		
60136463026	MW-2D_20130105	SM 2510B	MT/11140		
60136463027	MW-5S_20130105	SM 2510B	MT/11140		
60136463028	MW-5D_20130105	SM 2510B	MT/11140		
60136463029	MW-6S_20130105	SM 2510B	MT/11140		
60136463030	MW-6D_20130105	SM 2510B	MT/11140		
60136463031	MW-104_20130105	SM 2510B	MT/11140		
60136463032	MW-103_20130105	SM 2510B	MT/11140		
60136463001	GW-1_20130103	Calculated	MT/11150		
60136463002	GW-4_20130104	Calculated	MT/11150		
60136463003	MW-101_20130104	Calculated	MT/11150		
60136463004	MW-102_20130104	Calculated	MT/11150		
60136463005	GW-7_20130104	Calculated	MT/11150		
60136463006	MW-204_20130104	Calculated	MT/11150		
60136463007	CHV-101_20130104	Calculated	MT/11150		
60136463008	GW-6_20130104	Calculated	MT/11150		
60136463009	EB-2_20130104	Calculated	MT/11150		
60136463010	GW-5_20130104	Calculated	MT/11150		
60136463011	EB-1_20130104	Calculated	MT/11150		
60136463012	MW-4S_20130104	Calculated	MT/11150		
60136463013	MW-4D_20130104	Calculated	MT/11150		
60136463014	MW-1S_20130104	Calculated	MT/11150		
60136463015	MW-1D_20130104	Calculated	MT/11150		
60136463016	P13-103_20130104	Calculated	MT/11150		
60136463017	DR-3_20130104	Calculated	MT/11150		
60136463018	FB_20130104	Calculated	MT/11150		
60136463019	P13-102_20130104	Calculated	MT/11150		
60136463020	DR-4_20130104	Calculated	MT/11150		
60136463021	DR-8_20130104	Calculated	MT/11151		
60136463022	DR-5_20130104	Calculated	MT/11151		
60136463023	MW-3D_20130104	Calculated	MT/11151		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463024	GW-3_20130104	Calculated	MT/11151		
60136463025	DR-6_20130105	Calculated	MT/11151		
60136463026	MW-2D_20130105	Calculated	MT/11151		
60136463027	MW-5S_20130105	Calculated	MT/11151		
60136463028	MW-5D_20130105	Calculated	MT/11151		
60136463029	MW-6S_20130105	Calculated	MT/11151		
60136463030	MW-6D_20130105	Calculated	MT/11151		
60136463031	MW-104_20130105	Calculated	MT/11151		
60136463032	MW-103_20130105	Calculated	MT/11151		
60136463001	GW-1_20130103	SM 2320B	WET/39172		
60136463002	GW-4_20130104	SM 2320B	WET/39172		
60136463003	MW-101_20130104	SM 2320B	WET/39172		
60136463004	MW-102_20130104	SM 2320B	WET/39172		
60136463005	GW-7_20130104	SM 2320B	WET/39172		
60136463006	MW-204_20130104	SM 2320B	WET/39172		
60136463007	CHV-101_20130104	SM 2320B	WET/39172		
60136463008	GW-6_20130104	SM 2320B	WET/39172		
60136463009	EB-2_20130104	SM 2320B	WET/39172		
60136463010	GW-5_20130104	SM 2320B	WET/39172		
60136463011	EB-1_20130104	SM 2320B	WET/39172		
60136463012	MW-4S_20130104	SM 2320B	WET/39172		
60136463013	MW-4D_20130104	SM 2320B	WET/39172		
60136463014	MW-1S_20130104	SM 2320B	WET/39172		
60136463015	MW-1D_20130104	SM 2320B	WET/39172		
60136463016	P13-103_20130104	SM 2320B	WET/39172		
60136463017	DR-3_20130104	SM 2320B	WET/39172		
60136463018	FB_20130104	SM 2320B	WET/39173		
60136463019	P13-102_20130104	SM 2320B	WET/39173		
60136463020	DR-4_20130104	SM 2320B	WET/39173		
60136463021	DR-8_20130104	SM 2320B	WET/39173		
60136463022	DR-5_20130104	SM 2320B	WET/39173		
60136463023	MW-3D_20130104	SM 2320B	WET/39173		
60136463024	GW-3_20130104	SM 2320B	WET/39173		
60136463025	DR-6_20130105	SM 2320B	WET/39173		
60136463026	MW-2D_20130105	SM 2320B	WET/39173		
60136463027	MW-5S_20130105	SM 2320B	WET/39173		
60136463028	MW-5D_20130105	SM 2320B	WET/39173		
60136463029	MW-6S_20130105	SM 2320B	WET/39173		
60136463030	MW-6D_20130105	SM 2320B	WET/39173		
60136463031	MW-104_20130105	SM 2320B	WET/39173		
60136463032	MW-103_20130105	SM 2320B	WET/39173		
60136463001	GW-1_20130103	SM 2540C	WET/39178		
60136463002	GW-4_20130104	SM 2540C	WET/39178		
60136463003	MW-101_20130104	SM 2540C	WET/39178		
60136463004	MW-102_20130104	SM 2540C	WET/39178		
60136463005	GW-7_20130104	SM 2540C	WET/39178		
60136463006	MW-204_20130104	SM 2540C	WET/39178		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463007	CHV-101_20130104	SM 2540C	WET/39178		
60136463008	GW-6_20130104	SM 2540C	WET/39178		
60136463009	EB-2_20130104	SM 2540C	WET/39178		
60136463010	GW-5_20130104	SM 2540C	WET/39178		
60136463011	EB-1_20130104	SM 2540C	WET/39178		
60136463012	MW-4S_20130104	SM 2540C	WET/39178		
60136463013	MW-4D_20130104	SM 2540C	WET/39178		
60136463014	MW-1S_20130104	SM 2540C	WET/39178		
60136463015	MW-1D_20130104	SM 2540C	WET/39178		
60136463016	P13-103_20130104	SM 2540C	WET/39178		
60136463017	DR-3_20130104	SM 2540C	WET/39178		
60136463018	FB_20130104	SM 2540C	WET/39178		
60136463019	P13-102_20130104	SM 2540C	WET/39178		
60136463020	DR-4_20130104	SM 2540C	WET/39178		
60136463021	DR-8_20130104	SM 2540C	WET/39179		
60136463022	DR-5_20130104	SM 2540C	WET/39179		
60136463023	MW-3D_20130104	SM 2540C	WET/39179		
60136463024	GW-3_20130104	SM 2540C	WET/39179		
60136463025	DR-6_20130105	SM 2540C	WET/39179		
60136463026	MW-2D_20130105	SM 2540C	WET/39179		
60136463027	MW-5S_20130105	SM 2540C	WET/39179		
60136463028	MW-5D_20130105	SM 2540C	WET/39179		
60136463029	MW-6S_20130105	SM 2540C	WET/39179		
60136463030	MW-6D_20130105	SM 2540C	WET/39179		
60136463031	MW-104_20130105	SM 2540C	WET/39179		
60136463032	MW-103_20130105	SM 2540C	WET/39179		
60136463001	GW-1_20130103	SM 2540D	WET/39176		
60136463002	GW-4_20130104	SM 2540D	WET/39176		
60136463003	MW-101_20130104	SM 2540D	WET/39176		
60136463004	MW-102_20130104	SM 2540D	WET/39176		
60136463005	GW-7_20130104	SM 2540D	WET/39176		
60136463006	MW-204_20130104	SM 2540D	WET/39176		
60136463007	CHV-101_20130104	SM 2540D	WET/39176		
60136463008	GW-6_20130104	SM 2540D	WET/39176		
60136463009	EB-2_20130104	SM 2540D	WET/39176		
60136463010	GW-5_20130104	SM 2540D	WET/39176		
60136463011	EB-1_20130104	SM 2540D	WET/39176		
60136463012	MW-4S_20130104	SM 2540D	WET/39176		
60136463013	MW-4D_20130104	SM 2540D	WET/39176		
60136463014	MW-1S_20130104	SM 2540D	WET/39176		
60136463015	MW-1D_20130104	SM 2540D	WET/39176		
60136463016	P13-103_20130104	SM 2540D	WET/39176		
60136463017	DR-3_20130104	SM 2540D	WET/39176		
60136463018	FB_20130104	SM 2540D	WET/39176		
60136463019	P13-102_20130104	SM 2540D	WET/39176		
60136463020	DR-4_20130104	SM 2540D	WET/39176		
60136463021	DR-8_20130104	SM 2540D	WET/39177		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463022	DR-5_20130104	SM 2540D	WET/39177		
60136463023	MW-3D_20130104	SM 2540D	WET/39177		
60136463024	GW-3_20130104	SM 2540D	WET/39177		
60136463025	DR-6_20130105	SM 2540D	WET/39177		
60136463026	MW-2D_20130105	SM 2540D	WET/39177		
60136463027	MW-5S_20130105	SM 2540D	WET/39177		
60136463028	MW-5D_20130105	SM 2540D	WET/39177		
60136463029	MW-6S_20130105	SM 2540D	WET/39177		
60136463030	MW-6D_20130105	SM 2540D	WET/39177		
60136463031	MW-104_20130105	SM 2540D	WET/39177		
60136463032	MW-103_20130105	SM 2540D	WET/39177		
60136463001	GW-1_20130103	SM 4500-S-2 D	WET/39180		
60136463002	GW-4_20130104	SM 4500-S-2 D	WET/39180		
60136463003	MW-101_20130104	SM 4500-S-2 D	WET/39180		
60136463004	MW-102_20130104	SM 4500-S-2 D	WET/39180		
60136463005	GW-7_20130104	SM 4500-S-2 D	WET/39180		
60136463006	MW-204_20130104	SM 4500-S-2 D	WET/39180		
60136463007	CHV-101_20130104	SM 4500-S-2 D	WET/39180		
60136463008	GW-6_20130104	SM 4500-S-2 D	WET/39180		
60136463009	EB-2_20130104	SM 4500-S-2 D	WET/39180		
60136463010	GW-5_20130104	SM 4500-S-2 D	WET/39180		
60136463011	EB-1_20130104	SM 4500-S-2 D	WET/39180		
60136463012	MW-4S_20130104	SM 4500-S-2 D	WET/39180		
60136463013	MW-4D_20130104	SM 4500-S-2 D	WET/39180		
60136463014	MW-1S_20130104	SM 4500-S-2 D	WET/39180		
60136463015	MW-1D_20130104	SM 4500-S-2 D	WET/39180		
60136463016	P13-103_20130104	SM 4500-S-2 D	WET/39181		
60136463017	DR-3_20130104	SM 4500-S-2 D	WET/39181		
60136463018	FB_20130104	SM 4500-S-2 D	WET/39181		
60136463019	P13-102_20130104	SM 4500-S-2 D	WET/39181		
60136463020	DR-4_20130104	SM 4500-S-2 D	WET/39181		
60136463021	DR-8_20130104	SM 4500-S-2 D	WET/39181		
60136463022	DR-5_20130104	SM 4500-S-2 D	WET/39181		
60136463023	MW-3D_20130104	SM 4500-S-2 D	WET/39181		
60136463024	GW-3_20130104	SM 4500-S-2 D	WET/39181		
60136463025	DR-6_20130105	SM 4500-S-2 D	WET/39181		
60136463026	MW-2D_20130105	SM 4500-S-2 D	WET/39181		
60136463027	MW-5S_20130105	SM 4500-S-2 D	WET/39181		
60136463028	MW-5D_20130105	SM 4500-S-2 D	WET/39181		
60136463029	MW-6S_20130105	SM 4500-S-2 D	WET/39181		
60136463030	MW-6D_20130105	SM 4500-S-2 D	WET/39181		
60136463031	MW-104_20130105	SM 4500-S-2 D	WET/39181		
60136463032	MW-103_20130105	SM 4500-S-2 D	WET/39181		
60136463001	GW-1_20130103	EPA 300.0	WETA/23159		
60136463002	GW-4_20130104	EPA 300.0	WETA/23159		
60136463003	MW-101_20130104	EPA 300.0	WETA/23159		
60136463004	MW-102_20130104	EPA 300.0	WETA/23159		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463005	GW-7_20130104	EPA 300.0	WETA/23159		
60136463006	MW-204_20130104	EPA 300.0	WETA/23159		
60136463007	CHV-101_20130104	EPA 300.0	WETA/23159		
60136463008	GW-6_20130104	EPA 300.0	WETA/23159		
60136463009	EB-2_20130104	EPA 300.0	WETA/23169		
60136463010	GW-5_20130104	EPA 300.0	WETA/23159		
60136463011	EB-1_20130104	EPA 300.0	WETA/23159		
60136463012	MW-4S_20130104	EPA 300.0	WETA/23159		
60136463013	MW-4D_20130104	EPA 300.0	WETA/23159		
60136463014	MW-1S_20130104	EPA 300.0	WETA/23159		
60136463015	MW-1D_20130104	EPA 300.0	WETA/23159		
60136463016	P13-103_20130104	EPA 300.0	WETA/23159		
60136463017	DR-3_20130104	EPA 300.0	WETA/23169		
60136463018	FB_20130104	EPA 300.0	WETA/23169		
60136463019	P13-102_20130104	EPA 300.0	WETA/23169		
60136463020	DR-4_20130104	EPA 300.0	WETA/23169		
60136463021	DR-8_20130104	EPA 300.0	WETA/23169		
60136463022	DR-5_20130104	EPA 300.0	WETA/23169		
60136463023	MW-3D_20130104	EPA 300.0	WETA/23169		
60136463024	GW-3_20130104	EPA 300.0	WETA/23169		
60136463025	DR-6_20130105	EPA 300.0	WETA/23169		
60136463026	MW-2D_20130105	EPA 300.0	WETA/23169		
60136463027	MW-5S_20130105	EPA 300.0	WETA/23192		
60136463028	MW-5D_20130105	EPA 300.0	WETA/23169		
60136463029	MW-6S_20130105	EPA 300.0	WETA/23169		
60136463030	MW-6D_20130105	EPA 300.0	WETA/23169		
60136463031	MW-104_20130105	EPA 300.0	WETA/23169		
60136463032	MW-103_20130105	EPA 300.0	WETA/23169		
60136463001	GW-1_20130103	EPA 353.2	WETA/23195		
60136463002	GW-4_20130104	EPA 353.2	WETA/23195		
60136463003	MW-101_20130104	EPA 353.2	WETA/23195		
60136463004	MW-102_20130104	EPA 353.2	WETA/23195		
60136463005	GW-7_20130104	EPA 353.2	WETA/23195		
60136463006	MW-204_20130104	EPA 353.2	WETA/23195		
60136463007	CHV-101_20130104	EPA 353.2	WETA/23195		
60136463008	GW-6_20130104	EPA 353.2	WETA/23195		
60136463009	EB-2_20130104	EPA 353.2	WETA/23195		
60136463010	GW-5_20130104	EPA 353.2	WETA/23195		
60136463011	EB-1_20130104	EPA 353.2	WETA/23195		
60136463012	MW-4S_20130104	EPA 353.2	WETA/23195		
60136463013	MW-4D_20130104	EPA 353.2	WETA/23195		
60136463014	MW-1S_20130104	EPA 353.2	WETA/23195		
60136463015	MW-1D_20130104	EPA 353.2	WETA/23195		
60136463016	P13-103_20130104	EPA 353.2	WETA/23196		
60136463017	DR-3_20130104	EPA 353.2	WETA/23195		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DEC 2012 RICO WATER SAMPLING
Pace Project No.: 60136463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60136463018	FB_20130104	EPA 353.2	WETA/23195		
60136463019	P13-102_20130104	EPA 353.2	WETA/23195		
60136463020	DR-4_20130104	EPA 353.2	WETA/23195		
60136463021	DR-8_20130104	EPA 353.2	WETA/23195		
60136463022	DR-5_20130104	EPA 353.2	WETA/23196		
60136463023	MW-3D_20130104	EPA 353.2	WETA/23196		
60136463024	GW-3_20130104	EPA 353.2	WETA/23196		
60136463025	DR-6_20130105	EPA 353.2	WETA/23196		
60136463026	MW-2D_20130105	EPA 353.2	WETA/23196		
60136463027	MW-5S_20130105	EPA 353.2	WETA/23196		
60136463028	MW-5D_20130105	EPA 353.2	WETA/23196		
60136463029	MW-6S_20130105	EPA 353.2	WETA/23196		
60136463030	MW-6D_20130105	EPA 353.2	WETA/23196		
60136463031	MW-104_20130105	EPA 353.2	WETA/23196		
60136463032	MW-103_20130105	EPA 353.2	WETA/23196		
60136463001	GW-1_20130103	SM 4500-CN-E	WETA/23132		
60136463002	GW-4_20130104	SM 4500-CN-E	WETA/23132		
60136463003	MW-101_20130104	SM 4500-CN-E	WETA/23132		
60136463004	MW-102_20130104	SM 4500-CN-E	WETA/23132		
60136463005	GW-7_20130104	SM 4500-CN-E	WETA/23132		
60136463006	MW-204_20130104	SM 4500-CN-E	WETA/23132		
60136463007	CHV-101_20130104	SM 4500-CN-E	WETA/23132		
60136463008	GW-6_20130104	SM 4500-CN-E	WETA/23132		
60136463009	EB-2_20130104	SM 4500-CN-E	WETA/23132		
60136463010	GW-5_20130104	SM 4500-CN-E	WETA/23132		
60136463011	EB-1_20130104	SM 4500-CN-E	WETA/23132		
60136463012	MW-4S_20130104	SM 4500-CN-E	WETA/23132		
60136463013	MW-4D_20130104	SM 4500-CN-E	WETA/23132		
60136463014	MW-1S_20130104	SM 4500-CN-E	WETA/23132		
60136463015	MW-1D_20130104	SM 4500-CN-E	WETA/23132		
60136463016	P13-103_20130104	SM 4500-CN-E	WETA/23132		
60136463017	DR-3_20130104	SM 4500-CN-E	WETA/23132		
60136463018	FB_20130104	SM 4500-CN-E	WETA/23132		
60136463019	P13-102_20130104	SM 4500-CN-E	WETA/23133		
60136463020	DR-4_20130104	SM 4500-CN-E	WETA/23133		
60136463021	DR-8_20130104	SM 4500-CN-E	WETA/23133		
60136463022	DR-5_20130104	SM 4500-CN-E	WETA/23133		
60136463023	MW-3D_20130104	SM 4500-CN-E	WETA/23133		
60136463024	GW-3_20130104	SM 4500-CN-E	WETA/23133		
60136463025	DR-6_20130105	SM 4500-CN-E	WETA/23133		
60136463026	MW-2D_20130105	SM 4500-CN-E	WETA/23133		
60136463027	MW-5S_20130105	SM 4500-CN-E	WETA/23133		
60136463028	MW-5D_20130105	SM 4500-CN-E	WETA/23133		
60136463029	MW-6S_20130105	SM 4500-CN-E	WETA/23133		
60136463030	MW-6D_20130105	SM 4500-CN-E	WETA/23133		
60136463031	MW-104_20130105	SM 4500-CN-E	WETA/23133		
60136463032	MW-103_20130105	SM 4500-CN-E	WETA/23133		

QUALITY CONTROL DATA CROSS REFERENCE TABLE

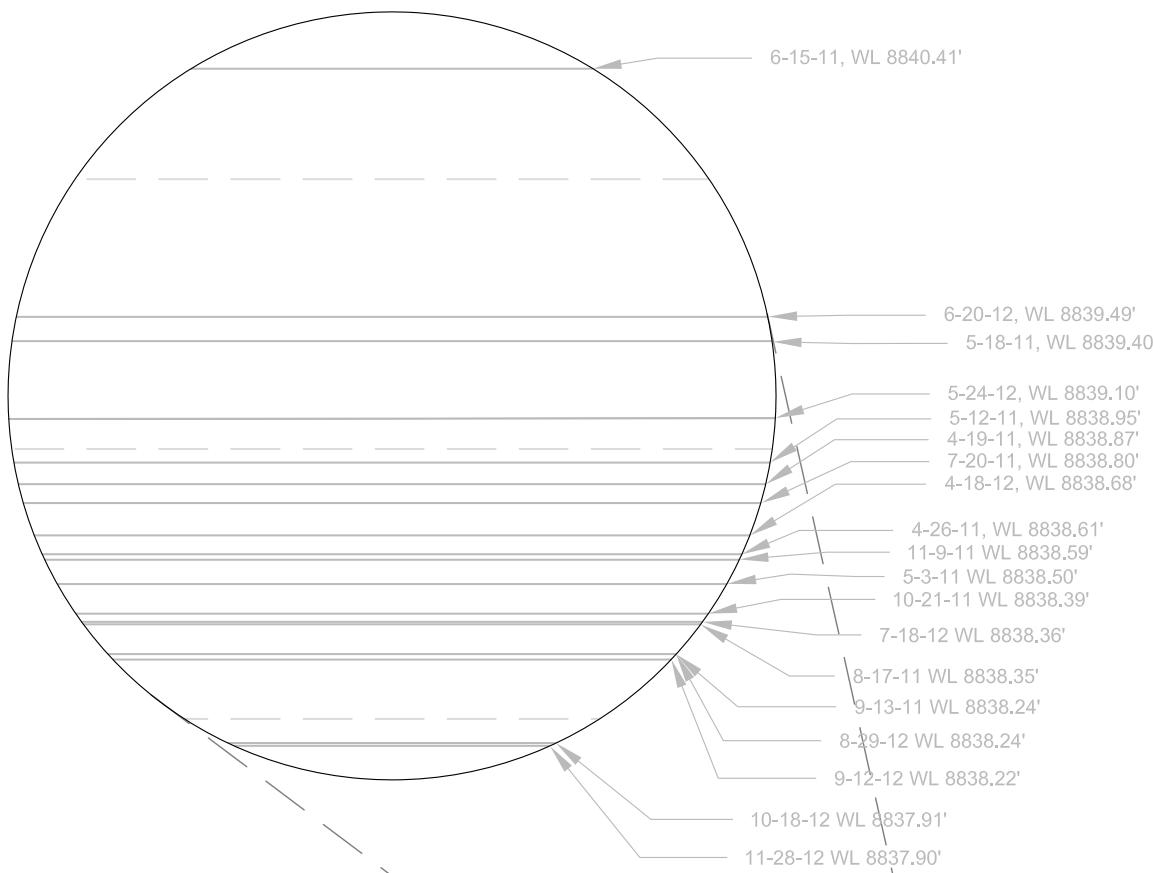
Project: DEC 2012 RICO WATER SAMPLING

Pace Project No.: 60136463

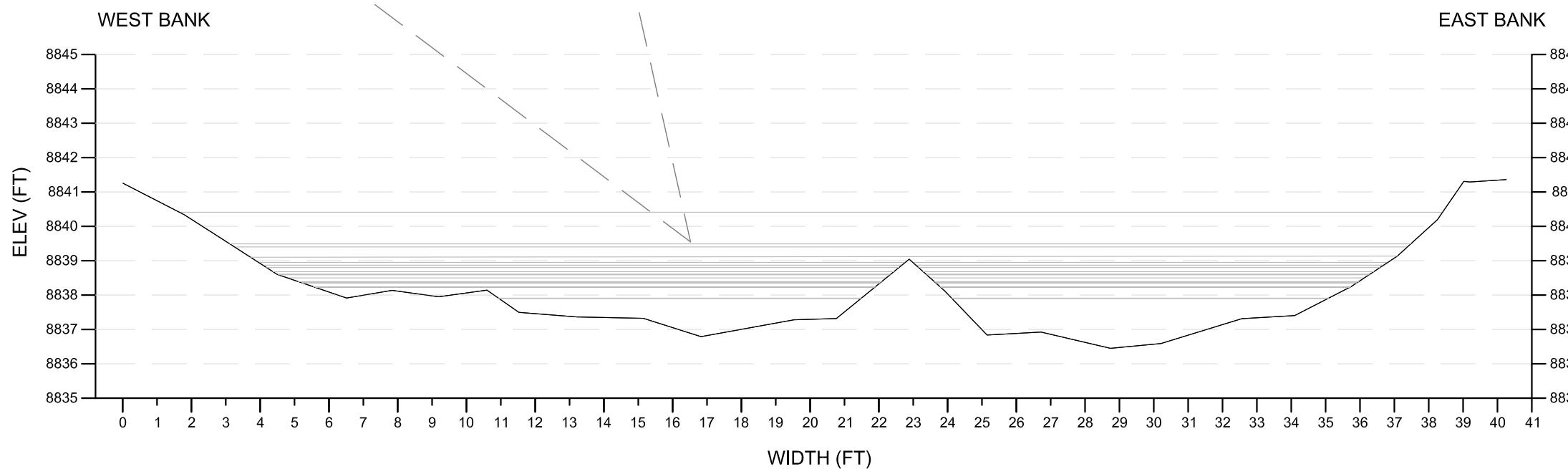
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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60136463002	GW-4_20130104	SM 5310C	WETA/23135		
60136463003	MW-101_20130104	SM 5310C	WETA/23135		
60136463004	MW-102_20130104	SM 5310C	WETA/23135		
60136463005	GW-7_20130104	SM 5310C	WETA/23135		
60136463006	MW-204_20130104	SM 5310C	WETA/23135		
60136463007	CHV-101_20130104	SM 5310C	WETA/23135		
60136463008	GW-6_20130104	SM 5310C	WETA/23135		
60136463009	EB-2_20130104	SM 5310C	WETA/23135		
60136463010	GW-5_20130104	SM 5310C	WETA/23135		
60136463011	EB-1_20130104	SM 5310C	WETA/23135		
60136463012	MW-4S_20130104	SM 5310C	WETA/23135		
60136463013	MW-4D_20130104	SM 5310C	WETA/23135		
60136463014	MW-1S_20130104	SM 5310C	WETA/23135		
60136463015	MW-1D_20130104	SM 5310C	WETA/23135		
60136463016	P13-103_20130104	SM 5310C	WETA/23135		
60136463017	DR-3_20130104	SM 5310C	WETA/23135		
60136463018	FB_20130104	SM 5310C	WETA/23135		
60136463019	P13-102_20130104	SM 5310C	WETA/23135		
60136463020	DR-4_20130104	SM 5310C	WETA/23135		
60136463021	DR-8_20130104	SM 5310C	WETA/23156		
60136463022	DR-5_20130104	SM 5310C	WETA/23156		
60136463023	MW-3D_20130104	SM 5310C	WETA/23156		
60136463024	GW-3_20130104	SM 5310C	WETA/23156		
60136463025	DR-6_20130105	SM 5310C	WETA/23156		
60136463026	MW-2D_20130105	SM 5310C	WETA/23156		
60136463027	MW-5S_20130105	SM 5310C	WETA/23156		
60136463028	MW-5D_20130105	SM 5310C	WETA/23166		
60136463029	MW-6S_20130105	SM 5310C	WETA/23166		
60136463030	MW-6D_20130105	SM 5310C	WETA/23166		
60136463031	MW-104_20130105	SM 5310C	WETA/23166		
60136463032	MW-103_20130105	SM 5310C	WETA/23166		

Appendix E

Flow Cross Sections



DR-1 CROSS SECTION



CROSS SECTION AT DR-1
SCALE - 1" = 4'

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General Notes

NOTE: COULD NOT OBTAIN FLOW DUE TO EXCESSIVE ICE BUILDUP IN RIVER AND ADVERSE WEATHER PREVENTING SAFE ACCESS

Scale in Feet
0 2 4

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



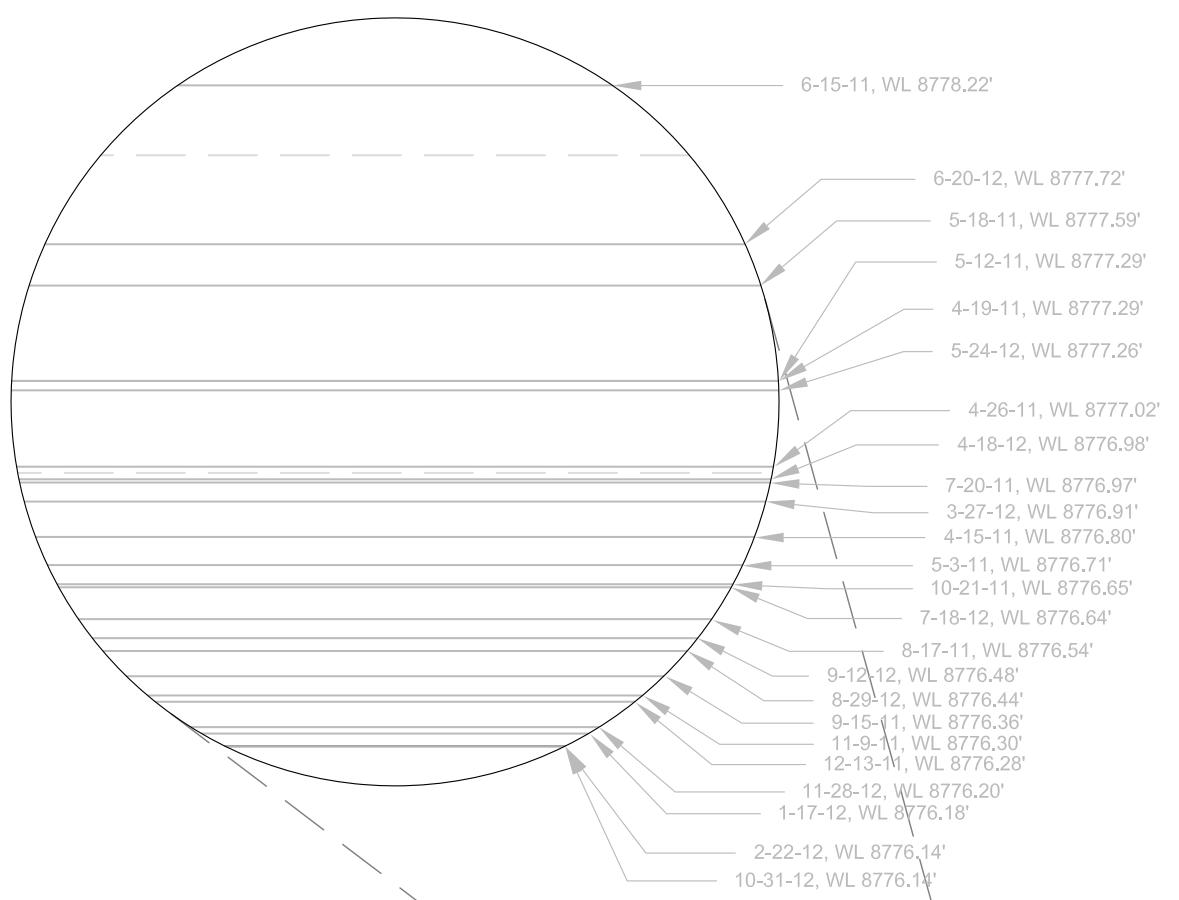
ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

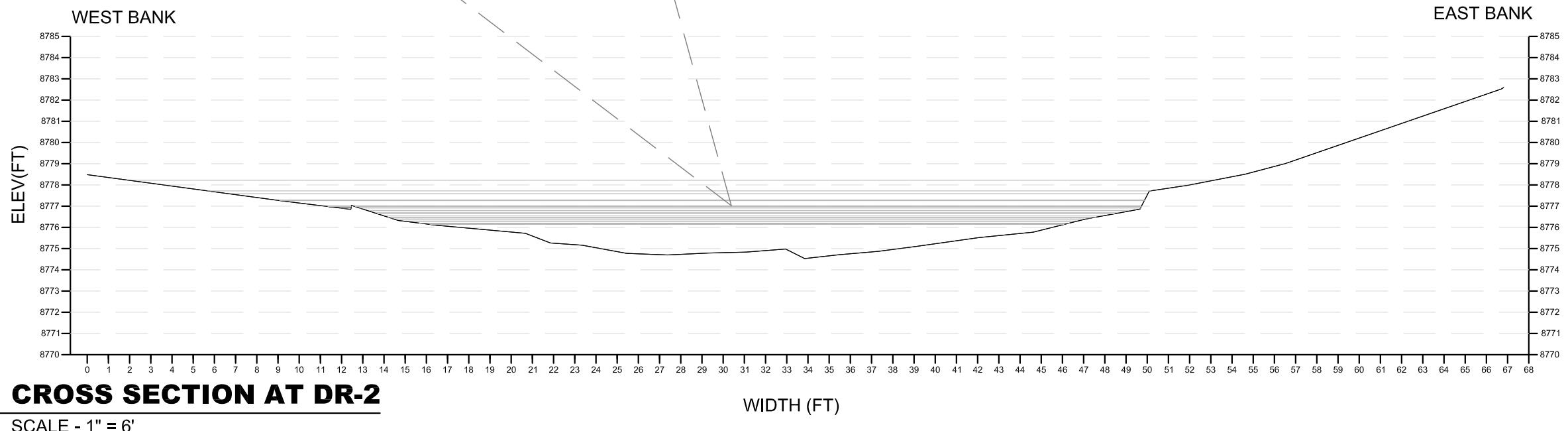
RICO SURFACE WATER SAMPLING
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-1
RICO, CO

Project	Figure
Date	DEC-2012
Scale	

4



DR-2 CROSS SECTION



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General Notes

NOTE: COULD NOT OBTAIN FLOW DUE TO EXCESSIVE ICE BUILDUP IN RIVER AND ADVERSE WEATHER PREVENTING SAFE ACCESS

Scale in Feet
0 3 6

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-2

RICO, CO

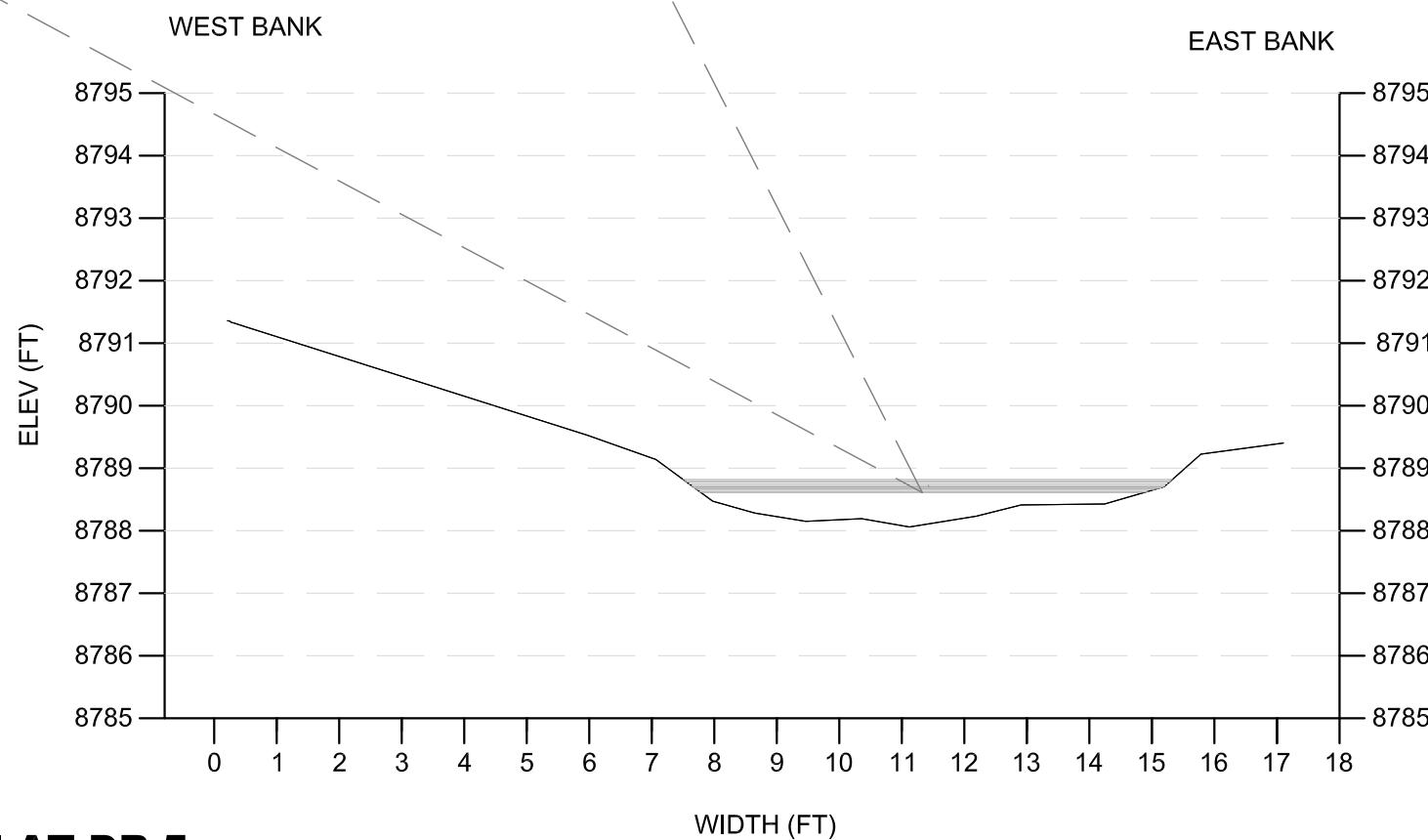
Project	Figure
DEC-2012	
Scale	

5

Sampling points and their corresponding water levels:

- 8-28-12, WL 8788.82'
- 7-18-12, WL 8788.80'
- 9-20-11, WL 8788.78'
- 10-21-11, WL 8788.75'
- 12-13-11, WL 8788.72'
- 6-20-12, WL 8788.72'
- 1-17-12, WL 8788.71'
- 11-9-11, WL 8788.70'
- 2-22-12, WL 8788.69'
- 9-15-11, WL 8788.69'
- 5-24-12, WL 8788.68'
- 7-20-11, WL 8788.68'
- 6-15-11, WL 8788.68'
- 5-12-11, WL 8788.67'
- 3-21-12, WL 8788.67'
- 4-18-12, WL 8788.66'
- 11-28-12, WL 8788.66'
- 8-17-11, WL 8788.63'
- 10-18-12, WL 8788.62'
- 5-3-11, WL 8788.61'
- 5-18-11, WL 8788.61'

DR-5 CROSS SECTION



CROSS SECTION AT DR-5
SCALE - 1" = 3'

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SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes

NOTE: COULD NOT OBTAIN FLOW DUE TO EXCESSIVE ICE BUILDUP IN RIVER AND ADVERSE WEATHER PREVENTING SAFE ACCESS

Scale in Feet

0	1.5	3
No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

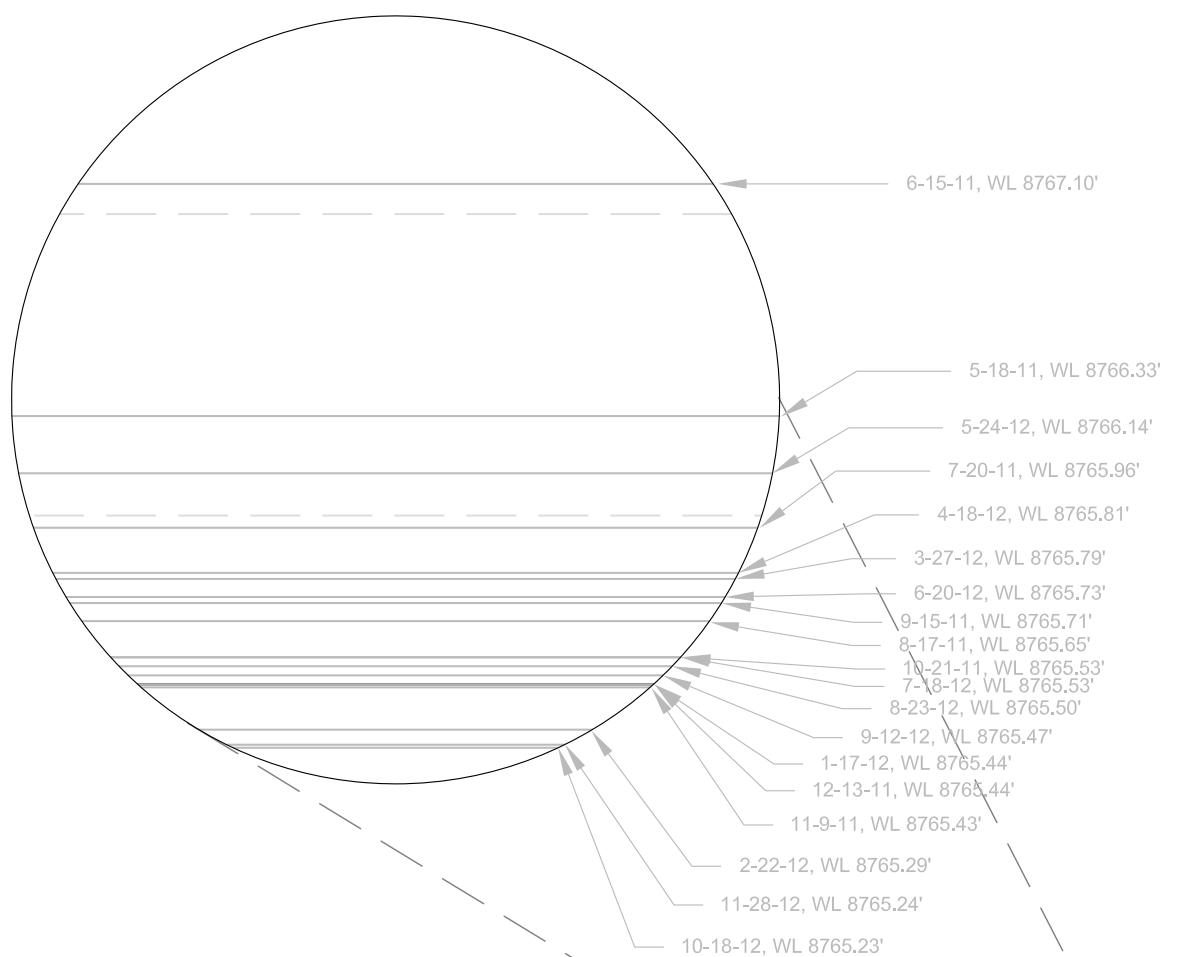
RICO SURFACE
WATER SAMPLING

POND 8 EMBANKMENT
CROSS SECTION AT
SAMPLING STATION DR-5

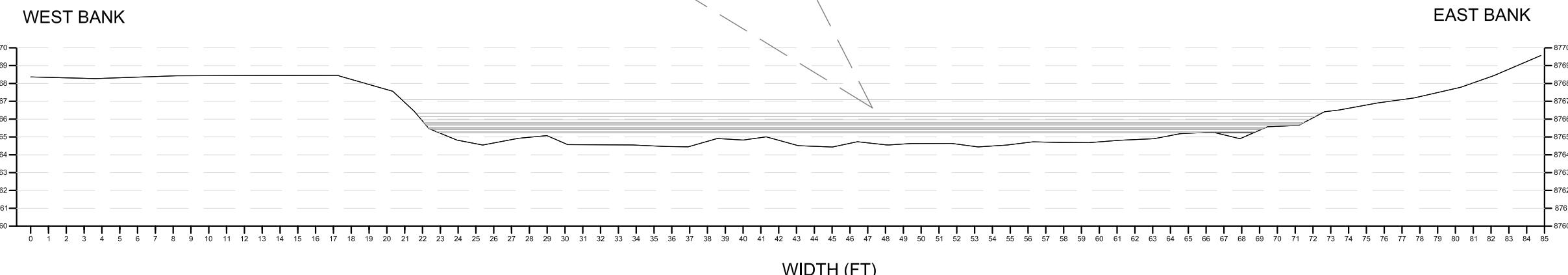
RICO, CO

Project: _____ Figure: _____
Date: DEC-2012 Scale: _____
Scale: _____

6



DR-7 CROSS SECTION



CROSS SECTION AT DR-7
SCALE - 1" = 7'

General Notes

NOTE: COULD NOT OBTAIN FLOW DUE TO EXCESSIVE ICE BUILDUP IN RIVER AND ADVERSE WEATHER PREVENTING SAFE ACCESS

Scale in Feet
0 3.5 7

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

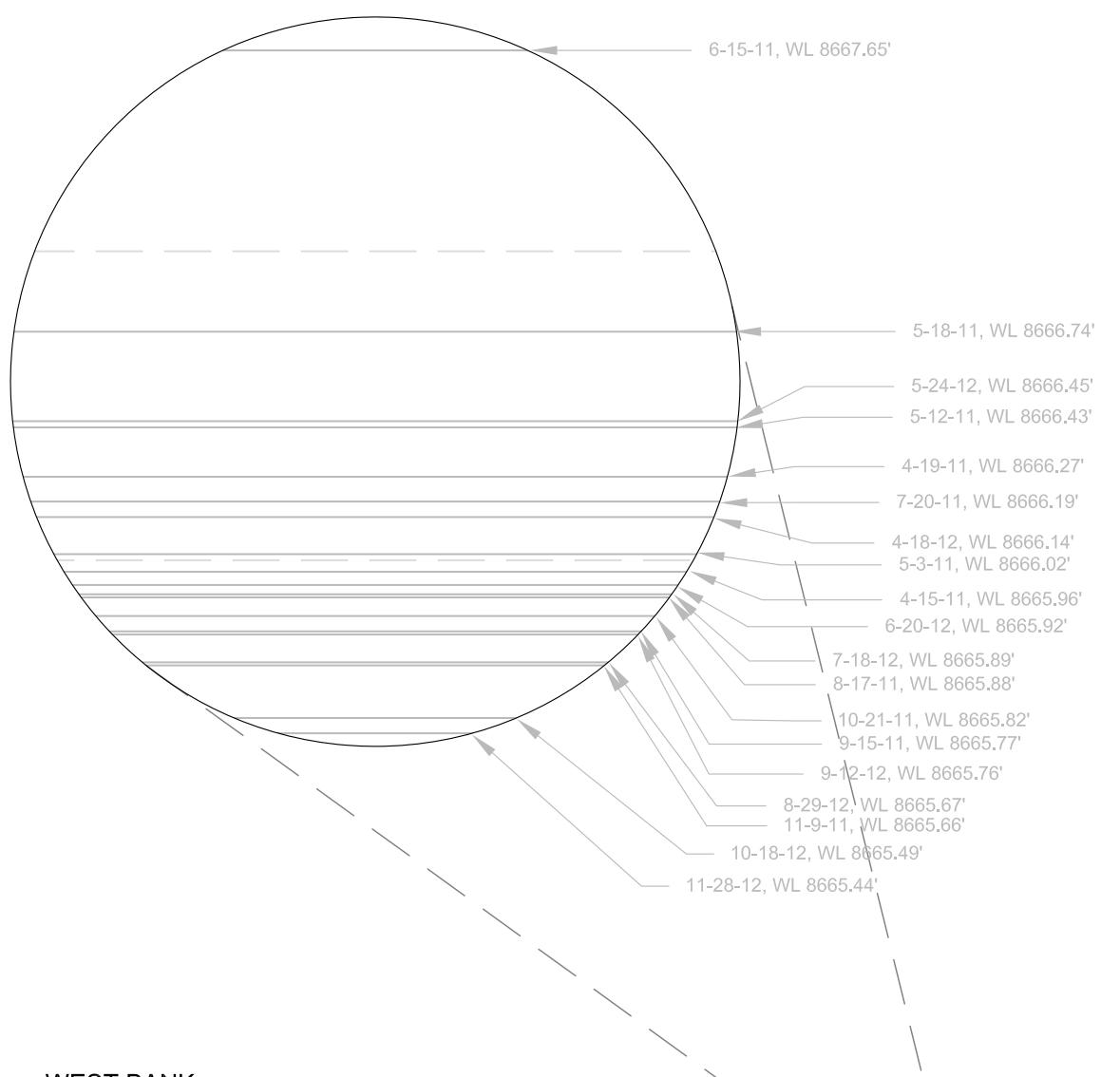
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

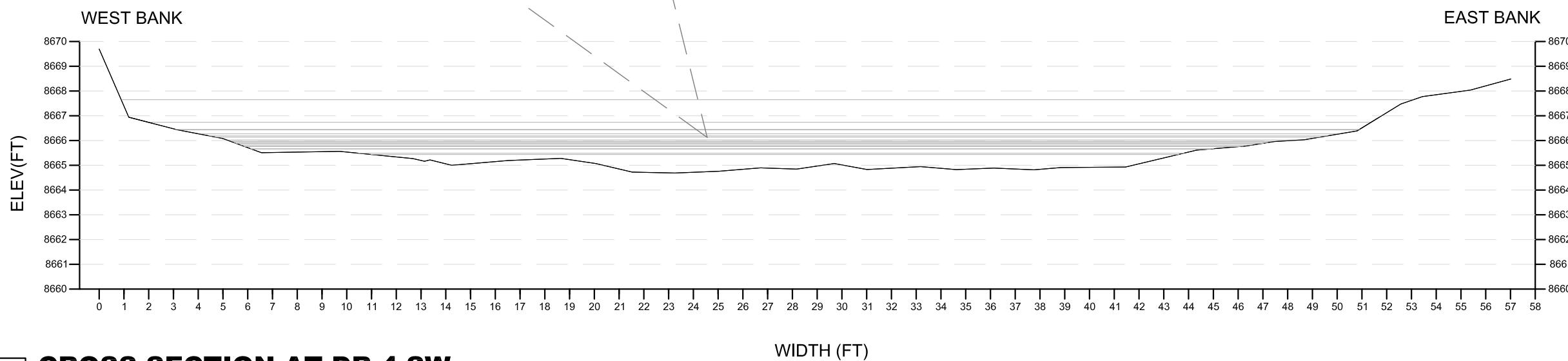
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-7

RICO, CO

Project: **DEC-2012** Figure: **7**
Date: Scale:



DR-4-SW CROSS SECTION



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General Notes

NOTE: COULD NOT OBTAIN FLOW DUE TO EXCESSIVE ICE BUILDUP IN RIVER AND ADVERSE WEATHER PREVENTING SAFE ACCESS

Scale in Feet
0 2.5 5

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

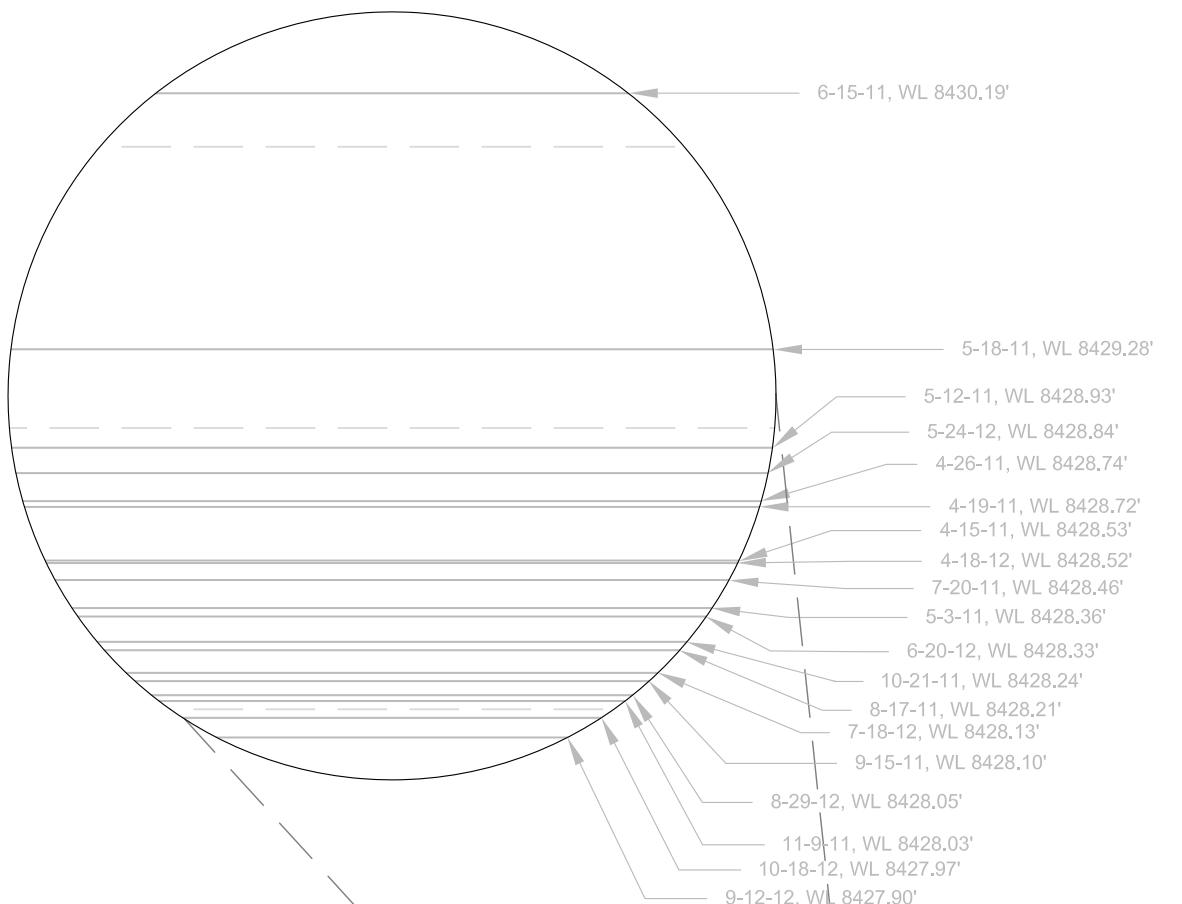
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

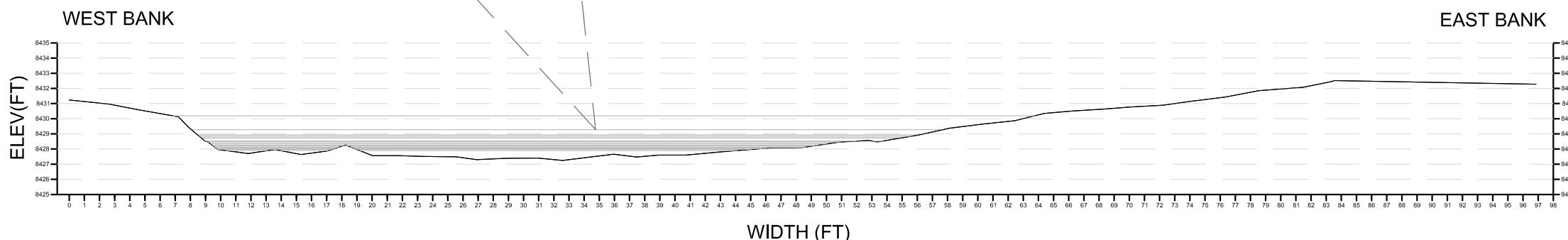
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-4-SW

RICO, CO

Project	Figure
Date	DEC-2012
Scale	



DR-G CROSS SECTION



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General Notes

NOTE: COULD NOT OBTAIN FLOW DUE TO EXCESSIVE ICE BUILDUP IN RIVER AND ADVERSE WEATHER PREVENTING SAFE ACCESS

Scale in Feet
0 4.5 9

No.	Revision/Issue	Date
-----	----------------	------

ATLANTIC RICHFIELD COMPANY



ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING
DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-G
RICO, CO

Project	Figure
Date	DEC-2012
Scale	

9

Appendix F
Chain of Custody Records



Sample Condition Upon Receipt
ESI Tech Spec Client

WO# : 60136463



60136463

Client Name: BP Anderson

Optional

Proj Due Date:

Proj Name:

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: B022 7281 6138 Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 2.5, 2.1, 2.9, 2.3, 3.2, 2.4, 1.6, 3.4 (circle one)

Date and initials of person examining contents: 1/01/13 1135

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>NO</u> <u>to +2</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>water</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>Jan</u> Lot # of added preservative
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>1135</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Mark DeFrize Date/Time: 2/5/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Comments/ Resolution: Email - date on sample not matching collection date. Per Mark correct sample IDs to have same date dmw 2/5/13

Start: 1115 Start: 1030

End: 1135 End: 1050

Project Manager Review: dmw Date: 2/8/13

Temp: 4.8 Temp:



ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT
84119
(801) 972-6222
FAX (801) 972-6235

Client: BP
Project: December 2012 Rico Water Sampling
ACCI Contact Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

CHAIN OF CUSTODY RECORD

COC#
Page 1 of 2

QC: (circle one)
I II III IV

60136463

COMMENTS

(1B2)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)(14)(15)(16)(17)(18)(19)(20)

c01

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Analysis Requested						Matrix Codes (W) Water (S) Soil (L) Liquid	
						Total Metals / Hardness / Silica	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	
GW-1	GW-1_20121218	1/3/2013	4:00 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
GW-4	GW-4_20121218	1/4/2013	11:08 AM	W	8	X X	X X	X X	X X	X X	X X	X X	
MW-101	MW-101_20121218	1/4/2013	11:12 AM	W	8	X X	X X	X X	X X	X X	X X	X X	
MW-102	MW-102_20121218	1/4/2013	11:31 AM	W	8	X X	X X	X X	X X	X X	X X	X X	
GW-7	GW-7_20121218	1/4/2013	11:45 AM	W	8	X X	X X	X X	X X	X X	X X	X X	
MW-204	MW-204_20121218	1/4/2013	12:01 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
CHV-101	CHV-101_20121218	1/4/2013	12:11 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
GW-6	GW-6_20121218	1/4/2013	12:21 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
EB-2	EB-2_20121218	1/4/2013	12:35 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
GW-5	GW-5_20121218	1/4/2013	12:49 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
EB-1	EB-1_20121218	1/4/2013	1:00 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
MW-4S	MW-4S_20121218	1/4/2013	1:06 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
MW-4D	MW-4D_20121218	1/4/2013	1:17 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
MW-1S	MW-1S_20121218	1/4/2013	1:30 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
MW-1D	MW-1D_20121218	1/4/2013	1:40 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
P13-103	P13-103_20121218	1/4/2013	1:49 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
DR-3	DR-3_20121218	1/4/2013	2:08 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
FB	FB_20121218	1/4/2013	2:20 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
P13-102	P13-102_20121218	1/4/2013	2:35 PM	W	8	X X	X X	X X	X X	X X	X X	X X	
DR-4	DR-4_20121218	1/4/2013	2:55 PM	W	8	X X	X X	X X	X X	X X	X X	X X	

Relinquished By: signature 	Date	Time	Received By: signature 	Time	Special Instructions
Relinquished By: signature					
Relinquished By: signature	Date	Time	Received By: signature	Time	
Relinquished By: signature					



977 West 2100 South
Salt Lake City, UT
84119
(801) 972-6222
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Client: BP
Project: December 2012 Rico Water Sampling

AECI Contact Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

CHAIN OF CUSTODY RECORD

COC# _____
Page 2 of 2

(20136463)

COMMENTS

Relinquished By: signature 	Date 1-7-12	Time 8:30 a	Received By: signature 	Date 1/8/13	Time 8:30	Special Instructions 2-5, 2-1, 2-9, 2-3, 33, 2-4, 16, 34 °c
Relinquished By: signature	Date	Time	Received By: signature			
Relinquished By: signature	Date	Time	Received By: signature			
Relinquished By: signature	Date	Time	Received By: signature			

Appendix G

Field Photos

December 2012 Field Photos



Cross Section at Station DR-1



Cross Section at Station DR-5



Cross Section at Station DR-2

Appendix H
Field Log Book Records

12/18/12

Location	Date/Time	Depth	pH	T	EC	DO	ab
GW-1		2.21					
GW-3		12.98					
GW-4		10.84'					
GW-5	22.16	22.57					
GW-6		21.60					
GW-7		23.14					
EB-1		22.57					
EB-2		17.02	*				
MW-1D		9.71					
MW-1S		6.57					
MW-2S		10.19 (DRY)					
MW-2D		10.15					
MW-3S		DRY					
MW-3D		10.05					
MW-4S		17.08					
MW-4D		17.03					
MW-5S		16.68					
MW-5D		17.56					
MW-6S		23.40					
MW-6D		Frozen					
MW-101		27.78					
MW-102		24.25					
MW-103		7.04					

CONTENTS

1/3/12

100 32° crew in Field
300 32° crew all social
400 GW-1
~~401 45/cm ORP TB
-122.2~~
5.12 DO ppm
7.09 pH
1.86 C

370 μ s/cm
-118.2 ORP
4.93 DO ppm
7.68 pH
191 C

1/4/13

830 AECI Grew in Field 10°
930 GW-4
894 $\mu\text{s}/\text{cm}$

Field meter needed
to be recalibrated

1/4/13

1121 MW-101
 $1812 \mu\text{s}/\text{cm}$
-87.0 ORP
0.83 DO ppm
6.20 pH
8.11 $^{\circ}\text{C}$

1100 All Grew in Field 32°

1108 GW-4

1045 $\mu\text{s}/\text{cm}$
-116.6 ORP
0.0 DO ppm
6.77 pH
2.54 $^{\circ}\text{C}$

1131 MW-102

898 $\mu\text{s}/\text{cm}$
-74.6 ORP
1.93 DO ppm
6.50 pH
9.49 $^{\circ}\text{C}$

1145 GW-7

1046 $\mu\text{s}/\text{cm}$
-67.6 ORP
1.55 DO ppm
6.33 pH
7.69 $^{\circ}\text{C}$

1/4/13

1201 MW - 204

924 $\mu\text{s}/\text{cm}$

-65.0 ORP

1.10 DO ppm

6.41 pH

8.37 $^{\circ}\text{C}$

1211 CHV - 101

959 $\mu\text{s}/\text{cm}$

-64.2 ORP

1.04 DO ppm

6.55 pH

9.22 $^{\circ}\text{C}$

1220 42° oil crew good

1221 GW - 6

1897 $\mu\text{s}/\text{cm}$

-60.2 ORP

0.92 DO ppm

6.62 pH

6.32 $^{\circ}\text{C}$

1/4/13

1235

EB - 2

2054 $\mu\text{s}/\text{cm}$

-55.5 ORP

1.09 DO ppm

5.97 pH

7.16 $^{\circ}\text{C}$

1249 GW - 5

1921 $\mu\text{s}/\text{cm}$

-49.0 ORP

2.06 DO ppm

6.51 pH

3.46 $^{\circ}\text{C}$

100 EB - 1

1672 $\mu\text{s}/\text{cm}$

-48.0 ORP

0.91 DO ppm

6.55 pH

3.17 $^{\circ}\text{C}$

1/4/13

106 MW - 4S
1026 mS/cm
-44.9 ORP
2.74 DO ppm
6.33 pH
7.59 °C

107 MW - 4D

1056 mS/cm
-60.4 ORP
1.00 DO ppm
6.76 pH
8.50 °C

130 MW - 1S

941 mS/cm
-50.1 ORP
5.34 DO ppm
6.76 pH
3.59 °C

139 40° all crew good

1/4/13

140 MW - 1D
942 mS/cm
-47.4 ORP
3.53 DO ppm
6.76 pH
3.43 °C

149 P13 - 103

1159 mS/cm
-49.1 ORP
0.14 DO ppm
6.47 pH
6.78 °C

208 DR - 3

980 mS/cm
-51.9 ORP
3.36 DO ppm
6.53 pH
17.70 °C

1/4/13

220 FB

2 45/cm
-58.8 ORP
5.97 DO ppm
8.02 pH
3.51 °C

285 P13 - 102

1356 45/cm

-42.2 OPR
1.66 DO ppm

6.63 pH

7.05 °C

255 DR - 4

964 45/cm
-35.1 OPR

5.67 DO ppm

6.77 pH

6.35 °C

307

DR - 8

968 45/cm

-40.0 ORP

3.65 DO ppm

6.55 pH

12.35 °C

315 40° 4 mph wing all good

320 DR - 5

1014 45/cm

-35.0 OPR

6.62 DO ppm

7.19 pH

3.13 °C

329 MW 3D

951 45/cm

-36.6 OPR

0.35 DO ppm

6.74 pH

6.75 °C

1/4/13

341 GW - 3

584 $\mu\text{s/cm}$

-35.1 ORP

5.89 DO ppm

6.45 pH

3.51 $^{\circ}\text{C}$

1/5/13

8:32

Saturday

Clear
40°

26° AECL crew

in field all good

834 DR - 6

1314 $\mu\text{s/cm}$

-108.3 ORP

7.52 DO ppm

6.15 pH

0.37 $^{\circ}\text{C}$

851 MW - 2D

908 $\mu\text{s/cm}$

-82.7 ORP

2.80 DO ppm

7.04 pH

7.49 $^{\circ}\text{C}$

920 MW - 5S

2413 $\mu\text{s/cm}$

-56.3 ORP

1.17 DO ppm

4.21 pH

5.88 $^{\circ}\text{C}$

925 25° AECL crew good

1/5/13

943 MW - SD

13.99 $\mu\text{s}/\text{cm}$

-58.5 ORP

0.73 DO ppm

7.40 pH

4.44 $^{\circ}\text{C}$

954 MW - 65

15.35 $\mu\text{s}/\text{cm}$

-54.7 ORP

.40 DO ppm

6.40 pH

8.21 $^{\circ}\text{C}$

1009 MW - 6D

9.39 $\mu\text{s}/\text{cm}$

-51.8 ORP

0.34 DO ppm

6.37 pH

8.20 $^{\circ}\text{C}$

1/5/13

1020 MW - 104

11.94 $\mu\text{s}/\text{cm}$

-44.7 ORP

1.59 DO ppm

6.79 pH

2.42 $^{\circ}\text{C}$

1035 MW - 103

11.69 $\mu\text{s}/\text{cm}$

-40.3 ORP

0.03 DO ppm

6.16 pH

5.48 $^{\circ}\text{C}$

Appendix I

North Flume OTT PLS Data with Flowrates

OTT PLS Data at North Flume, December 2012

Date, Time	Depth Reading (ft)	Flowrate	
		(cfs)	(gpm)
12/1/2012 0:00	0.6	1.42	636.4
12/1/2012 0:10	0.6	1.42	636.4
12/1/2012 0:20	0.6	1.42	636.4
12/1/2012 0:30	0.6	1.42	636.4
12/1/2012 0:40	0.6	1.42	636.4
12/1/2012 0:50	0.6	1.42	636.4
12/1/2012 1:00	0.6	1.42	636.4
12/1/2012 1:10	0.6	1.42	636.4
12/1/2012 1:20	0.6	1.42	636.4
12/1/2012 1:30	0.6	1.42	636.4
12/1/2012 1:40	0.6	1.42	636.4
12/1/2012 1:50	0.6	1.42	636.4
12/1/2012 2:00	0.6	1.42	636.4
12/1/2012 2:10	0.6	1.42	636.4
12/1/2012 2:20	0.6	1.42	636.4
12/1/2012 2:30	0.6	1.42	636.4
12/1/2012 2:40	0.6	1.42	636.4
12/1/2012 2:50	0.6	1.42	636.4
12/1/2012 3:00	0.6	1.42	636.4
12/1/2012 3:10	0.6	1.42	636.4
12/1/2012 3:20	0.6	1.42	636.4
12/1/2012 3:30	0.6	1.42	636.4
12/1/2012 3:40	0.6	1.42	636.4
12/1/2012 3:50	0.6	1.42	636.4
12/1/2012 4:00	0.6	1.42	636.4
12/1/2012 4:10	0.6	1.42	636.4
12/1/2012 4:20	0.6	1.42	636.4
12/1/2012 4:30	0.6	1.42	636.4
12/1/2012 4:40	0.6	1.42	636.4
12/1/2012 4:50	0.6	1.42	636.4
12/1/2012 5:00	0.6	1.42	636.4
12/1/2012 5:10	0.6	1.42	636.4
12/1/2012 5:20	0.6	1.42	636.4
12/1/2012 5:30	0.6	1.42	636.4
12/1/2012 5:40	0.6	1.42	636.4
12/1/2012 5:50	0.6	1.42	636.4
12/1/2012 6:00	0.6	1.42	636.4
12/1/2012 6:10	0.6	1.42	636.4
12/1/2012 6:20	0.6	1.42	636.4
12/1/2012 6:30	0.6	1.42	636.4
12/1/2012 6:40	0.6	1.42	636.4
12/1/2012 6:50	0.6	1.42	636.4

12/1/2012 7:00	0.6	1.42	636.4
12/1/2012 7:10	0.6	1.42	636.4
12/1/2012 7:20	0.6	1.42	636.4
12/1/2012 7:30	0.6	1.42	636.4
12/1/2012 7:40	0.6	1.42	636.4
12/1/2012 7:50	0.6	1.42	636.4
12/1/2012 8:00	0.6	1.42	636.4
12/1/2012 8:10	0.6	1.42	636.4
12/1/2012 8:20	0.6	1.42	636.4
12/1/2012 8:30	0.6	1.42	636.4
12/1/2012 8:40	0.6	1.42	636.4
12/1/2012 8:50	0.6	1.42	636.4
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12/21/2012 12:30	0.6	1.42	636.4
12/21/2012 12:40	0.6	1.42	636.4
12/21/2012 12:50	0.59	1.38	620.4
12/21/2012 13:00	0.6	1.42	636.4
12/21/2012 13:10	0.6	1.42	636.4
12/21/2012 13:20	0.6	1.42	636.4
12/21/2012 13:30	0.6	1.42	636.4
12/21/2012 13:40	0.6	1.42	636.4
12/21/2012 13:50	0.59	1.38	620.4
12/21/2012 14:00	0.6	1.42	636.4
12/21/2012 14:10	0.6	1.42	636.4
12/21/2012 14:20	0.6	1.42	636.4
12/21/2012 14:30	0.6	1.42	636.4
12/21/2012 14:40	0.6	1.42	636.4
12/21/2012 14:50	0.59	1.38	620.4
12/21/2012 15:00	0.59	1.38	620.4
12/21/2012 15:10	0.6	1.42	636.4
12/21/2012 15:20	0.6	1.42	636.4
12/21/2012 15:30	0.6	1.42	636.4
12/21/2012 15:40	0.6	1.42	636.4

12/21/2012 15:50	0.6	1.42	636.4
12/21/2012 16:00	0.6	1.42	636.4
12/21/2012 16:10	0.6	1.42	636.4
12/21/2012 16:20	0.6	1.42	636.4
12/21/2012 16:30	0.6	1.42	636.4
12/21/2012 16:40	0.6	1.42	636.4
12/21/2012 16:50	0.6	1.42	636.4
12/21/2012 17:00	0.59	1.38	620.4
12/22/2012 10:10	0.61	1.45	652.4
12/22/2012 10:10	0.61	1.45	652.4
12/22/2012 10:10	0.61	1.45	652.4
12/22/2012 10:10	0.6	1.42	636.4
12/22/2012 10:10	0.6	1.42	636.4
12/22/2012 10:20	0.6	1.42	636.4
12/22/2012 10:30	0.6	1.42	636.4
12/22/2012 10:40	0.6	1.42	636.4
12/22/2012 10:50	0.6	1.42	636.4
12/22/2012 11:00	0.6	1.42	636.4
12/22/2012 11:10	0.6	1.42	636.4
12/22/2012 11:20	0.6	1.42	636.4
12/22/2012 11:30	0.6	1.42	636.4
12/22/2012 11:40	0.6	1.42	636.4
12/22/2012 11:50	0.6	1.42	636.4
12/22/2012 12:00	0.6	1.42	636.4
12/22/2012 12:10	0.6	1.42	636.4
12/22/2012 12:20	0.6	1.42	636.4
12/22/2012 12:30	0.59	1.38	620.4
12/22/2012 12:40	0.6	1.42	636.4
12/22/2012 12:50	0.6	1.42	636.4
12/22/2012 13:00	0.6	1.42	636.4
12/22/2012 13:10	0.59	1.38	620.4
12/22/2012 13:20	0.6	1.42	636.4
12/22/2012 13:30	0.6	1.42	636.4
12/22/2012 13:40	0.6	1.42	636.4
12/22/2012 13:50	0.59	1.38	620.4
12/22/2012 14:00	0.6	1.42	636.4
12/22/2012 14:10	0.6	1.42	636.4
12/22/2012 14:20	0.6	1.42	636.4
12/22/2012 14:30	0.59	1.38	620.4
12/22/2012 14:40	0.6	1.42	636.4
12/22/2012 14:50	0.6	1.42	636.4
12/22/2012 15:00	0.6	1.42	636.4
12/22/2012 15:10	0.6	1.42	636.4
12/22/2012 15:20	0.6	1.42	636.4
12/22/2012 15:30	0.6	1.42	636.4
12/22/2012 15:40	0.59	1.38	620.4
12/22/2012 15:50	0.6	1.42	636.4

12/22/2012 16:00	0.6	1.42	636.4
12/22/2012 16:10	0.59	1.38	620.4
12/22/2012 16:20	0.6	1.42	636.4
12/22/2012 16:30	0.6	1.42	636.4
12/22/2012 16:40	0.6	1.42	636.4
12/22/2012 16:50	0.59	1.38	620.4
12/22/2012 17:00	0.6	1.42	636.4
12/22/2012 17:10	0.6	1.42	636.4
12/22/2012 17:20	0.6	1.42	636.4
12/22/2012 17:30	0.59	1.38	620.4
12/22/2012 17:40	0.6	1.42	636.4
12/22/2012 17:50	0.59	1.38	620.4
12/22/2012 18:00	0.6	1.42	636.4
12/22/2012 18:10	0.6	1.42	636.4
12/22/2012 18:20	0.6	1.42	636.4
12/22/2012 18:30	0.6	1.42	636.4
12/22/2012 18:40	0.59	1.38	620.4
12/22/2012 18:50	0.6	1.42	636.4
12/22/2012 19:00	0.59	1.38	620.4
12/23/2012 10:20	0.6	1.42	636.4
12/23/2012 10:20	0.6	1.42	636.4
12/23/2012 10:20	0.59	1.38	620.4
12/23/2012 10:20	0.59	1.38	636.4
12/23/2012 10:30	0.6	1.42	636.4
12/23/2012 10:40	0.59	1.38	620.4
12/23/2012 10:50	0.59	1.38	620.4
12/23/2012 11:00	0.6	1.42	636.4
12/23/2012 11:10	0.6	1.42	636.4
12/23/2012 11:20	0.6	1.42	636.4
12/23/2012 11:30	0.6	1.42	636.4
12/23/2012 11:40	0.59	1.38	620.4
12/23/2012 11:50	0.6	1.42	636.4
12/23/2012 12:00	0.6	1.42	636.4
12/23/2012 12:10	0.59	1.38	620.4
12/23/2012 12:20	0.6	1.42	636.4
12/23/2012 12:30	0.59	1.38	620.4
12/23/2012 12:40	0.6	1.42	636.4
12/23/2012 12:50	0.59	1.38	620.4
12/23/2012 13:00	0.6	1.42	636.4
12/23/2012 13:10	0.59	1.38	620.4
12/23/2012 13:20	0.59	1.38	620.4
12/23/2012 13:30	0.6	1.42	636.4
12/23/2012 13:40	0.59	1.38	620.4
12/23/2012 13:50	0.6	1.42	636.4
12/23/2012 14:00	0.6	1.42	636.4
12/23/2012 14:10	0.6	1.42	636.4

12/23/2012 14:20	0.6	1.42	636.4
12/23/2012 14:30	0.59	1.38	620.4
12/23/2012 14:40	0.59	1.38	620.4
12/23/2012 14:50	0.6	1.42	636.4
12/23/2012 15:00	0.6	1.42	636.4
12/23/2012 15:10	0.59	1.38	620.4
12/23/2012 15:20	0.59	1.38	620.4
12/23/2012 15:30	0.6	1.42	636.4
12/23/2012 15:40	0.6	1.42	636.4
12/23/2012 15:50	0.6	1.42	636.4
12/23/2012 16:00	0.6	1.42	636.4
12/23/2012 16:10	0.6	1.42	636.4
12/23/2012 16:20	0.59	1.38	620.4
12/23/2012 16:30	0.6	1.42	636.4
12/23/2012 16:40	0.59	1.38	620.4
12/23/2012 16:50	0.59	1.38	620.4
12/23/2012 17:00	0.6	1.42	636.4
12/23/2012 17:10	0.59	1.38	620.4
12/23/2012 17:20	0.59	1.38	620.4
12/23/2012 17:30	0.6	1.42	636.4
12/23/2012 17:40	0.59	1.38	620.4
12/23/2012 17:50	0.59	1.38	620.4
12/23/2012 18:00	0.59	1.38	620.4
12/23/2012 18:10	0.59	1.38	620.4
12/23/2012 18:20	0.6	1.42	636.4
12/23/2012 18:30	0.6	1.42	636.4
12/23/2012 18:40	0.6	1.42	636.4
12/23/2012 18:50	0.59	1.38	620.4
12/23/2012 19:00	0.6	1.42	636.4
12/23/2012 19:10	0.59	1.38	620.4
12/23/2012 19:20	0.6	1.42	636.4
12/23/2012 19:30	0.59	1.38	620.4
12/23/2012 19:40	0.59	1.38	620.4
12/23/2012 19:50	0.59	1.38	620.4
12/23/2012 20:00	0.6	1.42	636.4
12/23/2012 20:10	0.59	1.38	620.4
12/23/2012 20:20	0.59	1.38	620.4
12/23/2012 20:30	0.6	1.42	636.4
12/23/2012 20:40	0.59	1.38	620.4
12/23/2012 20:50	0.6	1.42	636.4
12/23/2012 21:00	0.59	1.38	620.4
12/23/2012 21:10	0.6	1.42	636.4
12/23/2012 21:20	0.59	1.38	620.4
12/23/2012 21:30	0.59	1.38	620.4
12/23/2012 21:40	0.6	1.42	636.4
12/23/2012 21:50	0.59	1.38	620.4
12/23/2012 22:00	0.6	1.42	636.4

12/23/2012 22:10	0.6	1.42	636.4
12/23/2012 22:20	0.6	1.42	636.4
12/23/2012 22:30	0.6	1.42	636.4
12/23/2012 22:40	0.6	1.42	636.4
12/23/2012 22:50	0.59	1.38	620.4
12/23/2012 23:00	0.59	1.38	620.4
12/23/2012 23:10	0.6	1.42	636.4
12/24/2012 10:20	0.59	1.38	620.4
12/24/2012 10:20	0.6	1.42	636.4
12/24/2012 10:20	0.6	1.42	636.4
12/24/2012 10:20	0.6	1.42	636.4
12/24/2012 10:20	0.59	1.38	620.4
12/24/2012 10:20	0.6	1.42	636.4
12/24/2012 10:30	0.59	1.38	620.4
12/24/2012 10:40	0.6	1.42	636.4
12/24/2012 10:50	0.59	1.38	620.4
12/24/2012 11:00	0.59	1.38	620.4
12/24/2012 11:30	0.59	1.38	620.4
12/24/2012 11:30	0.6	1.42	636.4
12/24/2012 11:30	0.6	1.42	636.4
12/24/2012 12:30	0.6	1.42	636.4
12/24/2012 12:30	0.59	1.38	620.4
12/24/2012 12:30	0.59	1.38	620.4
12/24/2012 12:30	0.6	1.42	636.4
12/24/2012 12:30	0.6	1.42	636.4
12/24/2012 12:30	0.59	1.38	620.4
12/24/2012 12:40	0.6	1.42	636.4
12/25/2012 14:10	0.6	1.42	636.4
12/25/2012 14:10	0.61	1.45	652.4
12/25/2012 14:10	0.6	1.42	636.4
12/25/2012 14:10	0.6	1.42	636.4
12/25/2012 14:10	0.6	1.42	636.4
12/25/2012 14:10	0.59	1.38	620.4
12/25/2012 14:20	0.6	1.42	636.4
12/25/2012 15:10	0.66	1.64	734.9
12/25/2012 15:10	0.6	1.42	636.4
12/25/2012 15:10	0.6	1.42	636.4
12/25/2012 15:10	0.59	1.38	620.4
12/25/2012 15:10	0.59	1.38	620.4

Appendix J

North Flume Ultrasonic Sensor Data with Flowrates

Ultrasonic Sensor Data at North Flume, December 2012

Date, Time	Reading	Depth to water (ft)	Depth from sensor to Bottom of Flume (ft)	Depth of Flow (ft)	Depth of Flow (in)	Flowrate (cfs)	Flowrate (gpm)
12/1/2012 12:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 1:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 2:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 3:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/1/2012 4:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 5:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/1/2012 6:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/1/2012 7:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 8:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/1/2012 9:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/1/2012 10:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/1/2012 11:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 12:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 2:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 5:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 6:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/1/2012 7:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/1/2012 8:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 9:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/1/2012 10:00:00 PM	8.47	1.53	2.073	0.543	6.515	1.22	547.2
12/1/2012 11:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 12:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 1:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 2:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 3:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/2/2012 4:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 5:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 6:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 7:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 8:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 9:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 10:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/2/2012 11:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 12:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 2:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 5:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 6:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9

12/2/2012 7:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 8:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/2/2012 9:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/2/2012 10:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/2/2012 11:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/3/2012 12:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 1:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 2:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 3:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 4:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 5:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 6:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 7:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/3/2012 8:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 9:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/3/2012 10:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/3/2012 11:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 12:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 2:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 5:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/3/2012 6:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 7:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 8:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/3/2012 9:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/3/2012 10:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/3/2012 11:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/4/2012 12:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 1:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 2:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 3:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 4:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 5:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 6:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 7:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 8:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 9:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 10:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 11:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 12:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 2:00:00 PM	8.53	1.47	2.073	0.603	7.235	1.43	641.0
12/4/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 5:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9

12/4/2012 6:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 7:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 8:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/4/2012 9:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 10:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/4/2012 11:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 12:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 1:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 2:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 3:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 4:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 5:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 6:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/5/2012 7:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 8:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 9:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/5/2012 10:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/5/2012 11:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 12:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/5/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/5/2012 2:00:00 PM	8.53	1.47	2.073	0.603	7.235	1.43	641.0
12/5/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/5/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/5/2012 5:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/5/2012 6:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/5/2012 7:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 8:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/5/2012 9:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/5/2012 10:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/5/2012 11:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 12:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 1:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 2:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 3:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 4:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 5:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 6:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/6/2012 7:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 8:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 9:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 10:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 11:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 12:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 1:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 2:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/6/2012 3:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 4:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5

12/6/2012 5:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 6:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 7:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 8:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 9:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/6/2012 10:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/6/2012 11:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 12:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 1:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 2:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 3:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 4:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 5:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 6:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 7:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/7/2012 8:00:00 AM	7.5	2.5	2.073	-0.427	-5.125	#NUM!	#NUM!
12/7/2012 9:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/7/2012 10:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 11:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 12:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 2:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 5:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/7/2012 6:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 7:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 8:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/7/2012 9:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/7/2012 10:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/7/2012 11:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 12:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 1:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 2:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 3:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 4:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 5:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 6:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/8/2012 7:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 8:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 9:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/8/2012 10:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 11:00:00 AM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/8/2012 12:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/8/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/8/2012 2:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/8/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9

12/8/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/8/2012 5:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/8/2012 6:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 7:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/8/2012 8:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/8/2012 9:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/8/2012 10:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/8/2012 11:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/9/2012 12:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 1:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/9/2012 2:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/9/2012 3:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/9/2012 4:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/9/2012 5:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/9/2012 6:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/9/2012 7:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 8:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 9:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 10:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 11:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 12:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 1:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 2:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 3:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 4:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 5:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 6:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 7:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 8:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 9:00:00 PM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/9/2012 10:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/9/2012 11:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 12:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 1:00:00 AM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/10/2012 2:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 3:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 4:00:00 AM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/10/2012 5:00:00 AM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/10/2012 6:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/10/2012 7:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 8:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 9:00:00 AM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/10/2012 11:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/10/2012 12:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/10/2012 1:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 2:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/10/2012 3:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0

12/10/2012 4:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/10/2012 5:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 6:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 7:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/10/2012 8:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 9:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/10/2012 10:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/10/2012 11:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/11/2012 12:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 1:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 2:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 3:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 11:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 12:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 1:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 2:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 3:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/11/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/11/2012 5:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/11/2012 6:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/11/2012 7:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 8:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/11/2012 9:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/11/2012 10:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/11/2012 11:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/12/2012 12:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 1:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 2:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 3:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/12/2012 4:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 5:00:00 AM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/12/2012 6:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 7:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 8:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 9:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/12/2012 10:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/12/2012 11:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 12:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 1:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 2:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 3:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/12/2012 4:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 5:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 6:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 7:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/12/2012 8:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/12/2012 9:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0

12/12/2012 10:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/12/2012 11:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/13/2012 12:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/13/2012 1:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/13/2012 2:00:00 AM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/13/2012 11:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/13/2012 12:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/13/2012 1:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/13/2012 2:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/13/2012 3:00:00 PM	8.48	1.52	2.073	0.553	6.635	1.25	562.5
12/13/2012 4:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/13/2012 5:00:00 PM	8.48	1.52	2.073	0.553	6.635	1.25	562.5
12/13/2012 6:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/13/2012 7:00:00 PM	8.49	1.51	2.073	0.563	6.755	1.29	577.9
12/13/2012 8:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/13/2012 9:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/13/2012 10:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/13/2012 11:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 12:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/14/2012 1:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 2:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 3:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 4:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/14/2012 5:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/14/2012 6:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 7:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 8:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 9:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/14/2012 10:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 11:00:00 AM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 12:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/14/2012 1:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 2:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/14/2012 3:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/19/2012 12:00:00 PM	8.4	1.6	2.073	0.473	5.675	0.99	444.2
12/19/2012 1:00:00 PM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/19/2012 2:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/19/2012 3:00:00 PM	8.43	1.57	2.073	0.503	6.035	1.09	487.4
12/19/2012 4:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/20/2012 11:00:00 AM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/20/2012 12:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/20/2012 1:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/20/2012 2:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/20/2012 3:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/20/2012 4:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/21/2012 11:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/21/2012 12:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0

12/21/2012 1:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/21/2012 2:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/21/2012 3:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/21/2012 4:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/21/2012 5:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/22/2012 11:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/22/2012 12:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/22/2012 1:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/22/2012 2:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/22/2012 3:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/22/2012 4:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/22/2012 5:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/22/2012 6:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/22/2012 7:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/23/2012 11:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/23/2012 12:00:00 PM	8.5	1.5	2.073	0.573	6.875	1.32	593.5
12/23/2012 1:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/23/2012 2:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/23/2012 3:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/23/2012 4:00:00 PM	8.45	1.55	2.073	0.523	6.275	1.15	517.0
12/23/2012 5:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/23/2012 6:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/23/2012 7:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/23/2012 8:00:00 PM	8.41	1.59	2.073	0.483	5.795	1.02	458.4
12/23/2012 9:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/23/2012 10:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/23/2012 11:00:00 PM	8.46	1.54	2.073	0.533	6.395	1.19	532.0
12/24/2012 11:00:00 AM	8.45	1.55	2.073	0.523	6.275	1.15	517.0

Appendix K

South Flume Orpheus Mini Data with Flowrates

OTT Opheus Mini Data at South Flume, December 2012

Date	Time	Depth from top of flume to water (ft)	Depth of Flume Total (ft)	Depth of Flow (ft)	Flowrate (cfs)	Flowrate (gpm)
12/1/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/1/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/1/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/2/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/2/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/2/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/2/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/2/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/2/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/2/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/2/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0

12/2/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/2/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/2/2012	9:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/2/2012	10:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/2/2012	11:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/3/2012	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/3/2012	1:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/3/2012	2:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/3/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/3/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/3/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/3/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/3/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/3/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/3/2012	9:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/3/2012	10:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/3/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/3/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/3/2012	11:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/4/2012	1:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/4/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/4/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/4/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/4/2012	4:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	5:00:00 PM	2.03	2.5	0.47	0.98	440.0

12/4/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	9:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	10:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/4/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/5/2012	1:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/5/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/5/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/5/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/5/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/6/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/6/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/6/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/6/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/6/2012	3:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/6/2012	4:00:00 PM	2.0	2.5	0.50	1.08	483.2

12/6/2012	5:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/6/2012	6:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/6/2012	7:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/6/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/6/2012	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/6/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/6/2012	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/7/2012	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/7/2012	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/7/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/7/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/7/2012	4:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/7/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/7/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/7/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/7/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/7/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/7/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/7/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/7/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/7/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/7/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/7/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/7/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/7/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/7/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/7/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/7/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/7/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/7/2012	10:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/7/2012	11:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/8/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/8/2012	1:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/8/2012	2:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/8/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/8/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/8/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/8/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/8/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/8/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/8/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/8/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/8/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/8/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/8/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/8/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/8/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3

12/8/2012	4:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/8/2012	5:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/8/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/8/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/8/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/8/2012	9:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/8/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/8/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/9/2012	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/9/2012	1:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/9/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/9/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/9/2012	1:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/9/2012	2:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/9/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/9/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/9/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/9/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/9/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/9/2012	8:00:00 PM	2.05	2.5	0.45	0.92	412.1
12/9/2012	9:00:00 PM	2.07	2.5	0.43	0.86	384.7
12/9/2012	10:00:00 PM	1.93	2.5	0.57	1.31	588.9
12/9/2012	11:00:00 PM	1.84	2.5	0.66	1.64	734.9
12/10/2012	12:00:00 AM	1.81	2.5	0.69	1.75	785.9
12/10/2012	1:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/10/2012	2:00:00 AM	2.09	2.5	0.41	0.80	358.0
12/10/2012	3:00:00 AM	2.13	2.5	0.37	0.68	306.6
12/10/2012	4:00:00 AM	2.14	2.5	0.36	0.66	294.1
12/10/2012	5:00:00 AM	2.13	2.5	0.37	0.68	306.6
12/10/2012	6:00:00 AM	2.09	2.5	0.41	0.80	358.0
12/10/2012	7:00:00 AM	2.04	2.5	0.46	0.95	426.0
12/10/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/10/2012	9:00:00 AM	1.95	2.5	0.55	1.24	558.0
12/10/2012	10:00:00 AM	1.91	2.5	0.59	1.38	620.4
12/10/2012	11:00:00 AM	1.89	2.5	0.61	1.45	652.4
12/10/2012	12:00:00 PM	1.9	2.5	0.60	1.42	636.4
12/10/2012	1:00:00 PM	1.93	2.5	0.57	1.31	588.9
12/10/2012	2:00:00 PM	1.95	2.5	0.55	1.24	558.0

12/10/2012	3:00:00 PM	1.97	2.5	0.53	1.18	527.6
12/10/2012	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/10/2012	5:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/10/2012	6:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/10/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/10/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/10/2012	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/10/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/10/2012	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/11/2012	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/11/2012	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	4:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	5:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	6:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	8:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/11/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/11/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/11/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/11/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/11/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/12/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/12/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/12/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/12/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/12/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3

12/12/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/12/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/12/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	1:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/13/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/13/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/13/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/13/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/14/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/14/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/14/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/14/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/14/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/14/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/14/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/14/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/14/2012	8:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/14/2012	9:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/14/2012	10:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/14/2012	11:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/14/2012	12:00:00 PM	2.0	2.5	0.50	1.08	483.2

12/14/2012	1:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/14/2012	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
12/14/2012	3:00:00 PM	1.99	2.5	0.51	1.11	497.8
12/14/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
12/14/2012	5:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/14/2012	6:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/14/2012	7:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/14/2012	8:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/14/2012	9:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/14/2012	10:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/14/2012	11:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/15/2012	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/15/2012	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/15/2012	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/15/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/15/2012	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/15/2012	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/15/2012	6:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/15/2012	7:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/15/2012	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/15/2012	9:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/15/2012	10:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/15/2012	11:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/15/2012	12:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/15/2012	1:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/15/2012	2:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/15/2012	3:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/15/2012	4:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/15/2012	5:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/15/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/15/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/15/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/15/2012	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/15/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/15/2012	11:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/16/2012	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	1:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/16/2012	2:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/16/2012	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	4:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/16/2012	5:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	6:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	8:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	9:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	10:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/16/2012	11:00:00 AM	2.01	2.5	0.49	1.04	468.6

12/18/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/18/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/18/2012	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/19/2012	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/19/2012	1:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/19/2012	2:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/19/2012	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
12/19/2012	4:00:00 AM	1.98	2.5	0.52	1.14	512.6
12/19/2012	5:00:00 AM	1.97	2.5	0.53	1.18	527.6
12/19/2012	6:00:00 AM	1.96	2.5	0.54	1.21	542.7
12/19/2012	7:00:00 AM	1.96	2.5	0.54	1.21	542.7
12/19/2012	8:00:00 AM	1.96	2.5	0.54	1.21	542.7
12/19/2012	9:00:00 AM	1.96	2.5	0.54	1.21	542.7
12/19/2012	10:00:00 AM	1.96	2.5	0.54	1.21	542.7
12/19/2012	11:00:00 AM	1.97	2.5	0.53	1.18	527.6
12/19/2012	12:00:00 PM	1.96	2.5	0.54	1.21	542.7
12/19/2012	1:00:00 PM	1.97	2.5	0.53	1.18	527.6
12/19/2012	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/19/2012	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
12/19/2012	4:00:00 PM	1.99	2.5	0.51	1.11	497.8
12/19/2012	5:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/19/2012	6:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/19/2012	7:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/19/2012	8:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/19/2012	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/19/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/19/2012	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/20/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/20/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3

12/20/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/20/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/20/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/20/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/20/2012	2:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/20/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/20/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/20/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/20/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/20/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/20/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/20/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/20/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/20/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/21/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/21/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/21/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/21/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/21/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/21/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/21/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/21/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/21/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/21/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/21/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/21/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/21/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/21/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/21/2012	2:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/21/2012	3:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/21/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/21/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/21/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/21/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/21/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/21/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/21/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/21/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/22/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/22/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/22/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/22/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/22/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/22/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/22/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/22/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/22/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0

12/22/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/22/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/22/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/22/2012	12:00:00 PM	2.04	2.5	0.46	0.95	426.0
12/22/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/22/2012	2:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/22/2012	3:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/22/2012	4:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/22/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/22/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/22/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/22/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/22/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/22/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/22/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/23/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/23/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/23/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/23/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/23/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/23/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/23/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/23/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/24/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3

12/24/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/24/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/24/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/24/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/24/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/24/2012	3:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/24/2012	4:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/24/2012	5:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/24/2012	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/24/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/24/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/24/2012	9:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/24/2012	10:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/24/2012	11:00:00 PM	2.0	2.5	0.50	1.08	483.2
12/25/2012	12:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/25/2012	1:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/25/2012	2:00:00 AM	2.0	2.5	0.50	1.08	483.2
12/25/2012	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/25/2012	4:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/25/2012	5:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/25/2012	6:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/25/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/25/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/25/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/25/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/25/2012	11:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/25/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/25/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/26/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/26/2012	2:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/26/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/26/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/26/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/26/2012	6:00:00 AM	2.02	2.5	0.48	1.01	454.3

12/26/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/26/2012	8:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/26/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/26/2012	10:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/26/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/26/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/26/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/26/2012	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/26/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/26/2012	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/26/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	4:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	5:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	6:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	8:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	9:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	10:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	11:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/27/2012	12:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	1:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/27/2012	2:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/27/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/27/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/28/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/28/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/28/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/28/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/28/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/28/2012	5:00:00 AM	2.02	2.5	0.48	1.01	454.3

12/28/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/28/2012	7:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/28/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/28/2012	9:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/28/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/28/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/28/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/28/2012	3:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	4:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	5:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	9:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/28/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/28/2012	11:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/29/2012	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/29/2012	2:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	4:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/29/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/29/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/29/2012	1:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/29/2012	2:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/29/2012	3:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/29/2012	4:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/29/2012	5:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/29/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/29/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/29/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/29/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/29/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/29/2012	11:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/30/2012	2:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	3:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	4:00:00 AM	2.03	2.5	0.47	0.98	440.0

12/30/2012	5:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	6:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	7:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	8:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	9:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	10:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	11:00:00 AM	2.03	2.5	0.47	0.98	440.0
12/30/2012	12:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	1:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	2:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	3:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	4:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/30/2012	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	7:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	8:00:00 PM	2.03	2.5	0.47	0.98	440.0
12/30/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/30/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/30/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	12:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/31/2012	1:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/31/2012	2:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/31/2012	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
12/31/2012	4:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	5:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	6:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	7:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	8:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	9:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	10:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	11:00:00 AM	2.01	2.5	0.49	1.04	468.6
12/31/2012	12:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/31/2012	1:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/31/2012	2:00:00 PM	2.01	2.5	0.49	1.04	468.6
12/31/2012	3:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	4:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	5:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	7:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	8:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	9:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	10:00:00 PM	2.02	2.5	0.48	1.01	454.3
12/31/2012	11:00:00 PM	2.02	2.5	0.48	1.01	454.3